QUALITY ASSURANCE/ QUALITY CONTROL REPORT

SE/QA/PR/ 95 /2024-25, DATE: 08/10/2024

Name of Work	:	Package No.01 (Package Consists of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads, drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra. 2. Improvements to roads, drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli. 7. Improvements to roads drain and other allied works in Vinayaka Layout 1st stage, Defence layout and surrounding areas in ward No.09 Hebbala Kempapura. Estimated Cost: 1000.00 Lakhs
Job Code	:	007-24-000009
Bill No& Amount	:	1st & Part Bill, Rs. 4,43,00,814.00
Name of the agency	:	M/s. SMLP Asphalts (Pro. B B Umesh).
Project Management Consultants	:	**M/s. Civil Pro Bangalore.**
Materials on which Tests Was Performed	:	1. Dense Graded Bituminous Macadam. 2. Bituminous Concrete. 3. Drain Side Wall (M20). 4. Drain Cover Slab (M20). 5. Culvert Cover Slab (M20). 6. CC Road (M30).
Type of Test Performed	:	1. Bitumen Content and Gradation Test as per MORTH V Revision as per Table: 500.10 & Table: 500.17. 2. Rebound Hammer Test as per IS: 11331 (part-1) & IS: 516-(Part-5/Sec-4):2020. 3. Ultrasonic Pulse Velocity Test as per IS: 516-(part-5/Sec-1).
Officers present during inspection	:	1. Sri. Somashekhar, AEE-Byatarayanapura Sub Div. 2. Sri. Sreedhar C, AEE–Quality Assurance. 3. Smt. Varalakshmi L, EE-Quality Assurance.
Observations	:	• Rebound Hammer Test was conducted at 08 random locations on Drain Side Wall (M20), Drain Cover Slab (M20), Culvert Cover Slab (M20), CC Road (M30) and Ultrasonic Pulse Velocity test was conducted at 07 random locations on Drain Side Wall (M20), Culvert Cover Slab (M20), CC Road (M30) and core cut samples of DBM & BC were collected at 03 random locations for conducting Bitumen Content & gradation tests by Project Management Consultants in presence of AEE-Byatarayanapura Sub Div., along with AEE- QA & EE-QA. • The test results furnished by PMC for the above mentioned samples were found satisfactory as per the requirements of standard specifications and the same results are reproduced in the tables shown below for further action.
Test Locations	:	**Location 1:** From Chainage 31.00 Metre (LHS), Sanjeevinagar Beside Aster CM1 Hospital. **Location 2:** C4, From Chainage 65.00 Metre (RHS), Sanjeevinagar Beside Aster CM1 Hospital. **Location 3:** C7, From 88.00 Metre (RHS), Sanjeevinagar Beside Aster CM1 Hospital. **Location 4:** In front of #29, Gourish House, Main Road LHS Side, Varadaraju Layout. **Location 5:** 3rd Cross Road RHS Side, Varadaraju Layout. **Location 6:** Near 6th Cross Road, Varadaraju Layout. **Location 7:** Basaveshwara Nilaya, 4th Cross Road, Varadaraju Layout. **Location 8:** Beside H. No. 67, 5th Cross Road, Varadaraju Layout. **Location 9:** At CH: 23.00mt, Nagavara A2B Beside Road. **Location 10:** At CH: 47.00mt, Nagavara A2B Beside Road. **Location 11:** At CH: 66.00mt, Nagavara A2B Beside Road.

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ -
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Table-01: Bitumen Content Determination Test Results for DBM.

Tested Location at:
Location 1: From Chainage 31.00 Metre (LHS), Sanjeevinagar Beside Aster CM1 Hospital.
Location 2: C4, From Chainage 65.00 Metre (RHS), Sanjeevinagar Beside Aster CM1 Hospital.
Location 3: C7, From Chainage 88.00 Metre (RHS), Sanjeevinagar Beside Aster CM1 Hospital..

Description	Sample-1	Sample-2	Sample-3
1. Weight of Mixture before Test, g W1	338	340	344
2. Weight of Mixture after Test, g	324.5	326.5	330.5
3. Initial Weight of Filter Paper W2	4	4	4
4. Final Weight of Filter Paper W4	6	6	6
5. Increase in Weight of Filter Paper	2	2	2
6. Bitumen content in %	4.59	4.56	4.51
7. Minimum Bitumen content in % as per MoRT&H	4.50		

(Location -01)

SIEVE SIZE, mm	Weight Retained, gms	Cumulative Retained In gms	Cumulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.10 of Grade-II
37.5	0	0	0.0	100.0	100
26.5	15	15	4.6	95.4	90 - 100
19	45	60	18.5	81.5	71 - 95
13.2	66	126	38.8	61.2	56 - 80
4.75	44	170	52.4	47.6	38 - 54
2.360	34	204	62.9	37.1	28 - 42
0.300	72	276	85.1	14.9	7 - 21
0.075	35.5	312	96.0	4.0	2 - 8

(Location -02)

SIEVE SIZE, mm	Weight Retained, gms	Cumulative Retained In gms	Cumulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.10 of Grade-II
37.5	0	0	0.0	100.0	100
26.5	10	10	3.1	96.9	90 - 100
19	35	45	13.8	86.2	71 - 95
13.2	68	113	34.6	65.4	56 - 80
4.75	45	158	48.4	51.6	38 - 54
2.360	55	213	65.2	34.8	28 - 42
0.300	60	273	83.6	16.4	7 - 21
0.075	35.5	309	94.5	5.5	2 - 8

(Location -03)

SIEVE SIZE, mm	Weight Retained, gms	Cumulative Retained In gms	Cumulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.10 of Grade-II
37.5	0	0	0.0	100.0	100
26.5	20	20	6.1	93.9	90 - 100
19	33	53	16.0	84.0	71 - 95
13.2	25	78	23.6	76.4	56 - 80
4.75	100	178	53.9	46.1	38 - 54
2.360	41	219	66.3	33.7	28 - 42
0.300	55.5	275	83.1	16.9	7 - 21
0.075	41	316	95.5	4.5	2 - 8

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Table-01: Bitumen Content Determination Test Results for BC.

Tested Location at:
Location 1: From Chainage 31.00 Metre (LHS), Sanjeevinagar Beside Aster CM1 Hospital.
Location 2: C4, From Chainage 65.00 Metre (RHS), Sanjeevinagar Beside Aster CM1 Hospital.
Location 3: C7, From Chainage 88.00 Metre (RHS), Sanjeevinagar Beside Aster CM1 Hospital..

Description	Trial-1	Trial-2	Trial-3
1. Weight of Mixture before Test, g W1	328	339	333
2. Weight of Mixture after Test, g	312	322.5	317
3. Initial Weight of Filter Paper W2	4	4	4
4. Final Weight of Filter Paper W4	6	6	6
5. Increase in Weight of Filter Paper	2	2	2
6. Bitumen content in %	5.49	5.46	5.41
7. Minimum Bitumen content in % as per MoRT&H	5.40		

(Location -01)

SIEVE SIZE, mm	Weight Retained, gms	Cumulative Retained In gms	Cumulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17 of Grade-II
19	0	0	0.0	100.0	100
13.2	10	10	3.2	96.8	79 - 100
9.5	55	65	20.8	79.2	70 - 88
4.75	60	125	40.1	59.9	53 - 71
2.36	45	170	54.5	45.5	42 - 58
1.18	25	195	62.5	37.5	34 - 48
0.600	10	205	65.7	34.3	26 - 38
0.300	40	245	78.5	21.5	18 - 28
0.150	20	265	84.9	15.1	12 - 20
0.075	20	285	91.3	8.7	4 - 10

(Location -02)

SIEVE SIZE, mm	Weight Retained, gms	Cumulative Retained In gms	Cumulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17 of Grade-II
19	0	0	0.0	100.0	100
13.2	15	15	4.7	95.3	79 - 100
9.5	59	74	22.9	77.1	70 - 88
4.75	61	135	41.9	58.1	53 - 71
2.36	35	170	52.7	47.3	42 - 58
1.18	29	199	61.7	38.3	34 - 48
0.600	10	209	64.8	35.2	26 - 38
0.300	39	248	76.9	23.1	18 - 28
0.150	20	268	83.1	16.9	12 - 20
0.075	35.5	303.5	94.1	5.9	4 - 10

(Location -03)

SIEVE SIZE, mm	Weight Retained, gms	Cumulative Retained In gms	Cumulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17 of Grade-II
19	0	0	0.0	100.0	100
13.2	4	4	1.3	98.7	79 - 100
9.5	52	56	17.7	82.3	70 - 88
4.75	80	136	42.9	57.1	53 - 71
2.36	5	141	44.5	55.5	42 - 58
1.18	30	171	53.9	46.1	34 - 48
0.600	55	226	71.3	28.7	26 - 38
0.300	10	236	74.4	25.6	18 - 28
0.150	35	271	85.5	14.5	12 - 20
0.075	25	296	93.4	6.6	4 - 10

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Table-03: Rebound Hammer Test
Location: Varadaraju Layout.

Sl. No.	Floor level / Structural Member /Identification	Location	Rebound Hammer Number	Average Rebound Hammer Number	Compressive strength of concrete (N/mm^2) After 28Days	Impact Direction
1	Drain Side Wall Wall (M20)	In front of #29, Gourish House	30	30	24	Horizontal
2			30			
3			28			
4			30			
5			30			
6			32			
7			34			
8			28			
9			30			
1	Drain Cover Slab (M20)		22	25	22	Vertical Down
2			24			
3			24			
4			22			
5			24			
6			28			
7			26			
8			28			
9			28			
1	Drain Side Wall (M20)	3rd Cross Road	32	29	23	Horizontal
2			30			
3			32			
4			32			
5			24			
6			30			
7			26			
8			26			
9			32			
1	Drain Side Wall (M20)	Near 6th Cross Road	28	29	23	Horizontal
2			22			
3			30			
4			30			
5			30			
6			30			
7			30			
8			28			
9			30			
1	Culvert Cover Slab (M20)	Basaveshwara Nilaya, 4th Cross Road	24	24	21	Vertical Down
2			28			
3			28			
4			20			
5			20			
6			20			
7			28			
8			26			
9			26			
1	Culvert Cover Slab (M20)	Beside H. No. 67, 5th Cross Road	26	26	24	Vertical Down
2			28			
3			26			
4			26			
5			26			
6			26			
7			24			
8			24			
9			24			

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Table-04: Rebound Hammer Test
Location: Nagavara A2B beside Road.

Sl. No.	Floor level / Structural Member /Identification	Location	Rebound Hammer Number	Average Rebound Hammer Number	Compressive strength of concrete (N/mm^2) After 28Days	Impact Direction
1	CC Road (M30)	Nagavara A2B beside Road CH: 23.00 mt	36	31	32	Vertical Down
2			32			
3			28			
4			30			
5			30			
6			30			
7			30			
8			28			
9			34			
1	Drain Cover Slab (M20)		30	32	34	Vertical Down
2			34			
3			30			
4			34			
5			30			
6			32			
7			32			
8			34			
9			34			
1	CC Road (M30)	Nagavara A2B beside Road CH: 47.00 mt	34	32	34	Vertical Down
2			32			
3			32			
4			32			
5			32			
6			32			
7			34			
8			32			
9			32			
1	CC Road (M30)	Nagavara A2B beside Road CH: 66.00 mt	34	32	34	Vertical Down
2			32			
3			34			
4			34			
5			32			
6			30			
7			34			
8			30			
9			30			

Table-05: Ultrasonic Pulse Velocity Test

Sl. No.	Structural Member /Identification	Time t in sec	Length in mm	Pulse Velocity (km/s)	Quality	Req. As per IS: 516-(Part-5/Sec-1):2020
01	Drain Side Wall (M20) Varadaraju Layout	100	26.9	3.72	Good	≤M25 Grade Below 3.5- Doubtful 3.5 to 4.5- Good Above 4.5- Excellent >M25 Grade Below 3.75- Doubtful 3.75 to 4.4- Good Above 4.4- Excellent
		200	45.1	4.43		
02	Drain Side Wall (M20) Varadaraju Layout	100	25.9	3.86	Good	
		200	47.1	4.25		
03	Culvert Cover Slab (M20) Varadaraju Layout	100	23.2	4.31	Good	
		200	45.7	4.38		
04	Culvert Cover Slab (M20) Varadaraju Layout	100	22.9	4.37	Good	
		200	48.6	4.12		
05	Drain Side Wall (M20) Varadaraju Layout	100	23.2	4.31	Good	
		200	44.7	4.47		
06	CC Road (M30) A2B Beside Road	100	25.6	3.91	Good	
		200	46.6	4.29		
07	CC Road (M30) A2B Beside Road	100	26.6	3.76	Good	
		200	49.6	4.03		

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Conclusion:

The file containing 1st & Part bill has been submitted for the above work to QA Department on 12/09/2024. Engineers of QA/QC division have visited the work spot on 25/09/2024.

PMC team was instructed to assess the strength of concrete used for Drain Side Wall (M20), Drain Cover Slab (M20), Culvert Cover Slab (M20), CC Road (M30) by conducting NDT using Rebound Hammer Test method and quality of Concrete by Ultrasonic Pulse Velocity Test for Drain Side Wall (M20), Culvert Cover Slab (M20), CC Road (M30) and also instructed to assess the results of DBM & BC by conducting Bitumen Content & Gradation Test. The Bitumen Content & Gradation Test, Rebound Hammer Test and Ultrasonic Pulse Velocity Test were conducted by PMC in presence of engineer in charge of work.

From the test results furnished by PMC consultants, it is concluded that the results are in accordance with the standards/ specifications mention in the IRC & BIS codes. However, the results submitted by the PMC have been reproduced here with for further needful action. The results checked by QA/QC relates only for item tested in the particular location randomly.

Further, QA/QC directs the PMC and Engineer in-charge of the work that all materials used for the work shall be inspected, tested and accepted as per the relevant specifications before incorporation in the work. The frequencies and methods of sampling and testing materials, including those required for definite purpose and not covered by MORTH specifications shall be in accordance to the relevant IRC & BIS or AASHTO/ASTM/BS standards in order of priority.

All materials or work not conforming to the requirements of the specifications shall be considered unacceptable and rejected. The unacceptable materials or works that are rejected shall be immediately removed unless the defects are corrected and approved by the engineer in-charge of work.

The concerned Engineer in charge of the work shall follow the direction issued by The Hon'le Chief Commissioner and take necessary action as appropriate in accordance with the law.

Note: -

i. This report by QA/QC is pertaining to the work carried out in 1st and part bill only. Therefore, further QA/QC reports shall be obtained for the items of work carried out in future Running Account bill / Final bill.
ii. Safety precautions shall be taken at work spot to prevent any mishap, injuries or loss of life to general public and construction workers according to guidelines laid down in code of practices.
iii. Engineer in charge of work shall obtain requisite approval and Implement traffic management plan prior to commencement of work.
iv. If there is any change in the estimate Engineer in Charge of work shall take approval from competent authority.
v. Engineer in charge of work shall display details of work, work code, cost of project, start and completion date, and information of Engineer in charge of work with contact numbers at work spot.
vi. Engineer in charge of work and Agency shall ensure that if any damages or defects occur pertaining to the executed work within the Defect Liability period (DLP) as per agreement the same shall be rectified immediately on top priority without fail.
vii. The Engineer in charge of work shall take necessary action if there are any changes in the sanctioned Estimates/Plan/Drawing regarding obtaining approval for work slip /EIRL items from competent authority.

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

1/10/24

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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01/10/24

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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1/10/24
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಕೆ

01/10/24
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಕೆ

01/10/24
ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
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ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
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01/10/24
ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

4/10/24

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
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1/10/24
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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01/10/24
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

01/10/24
ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ -
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01/10/24
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಉಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ -
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
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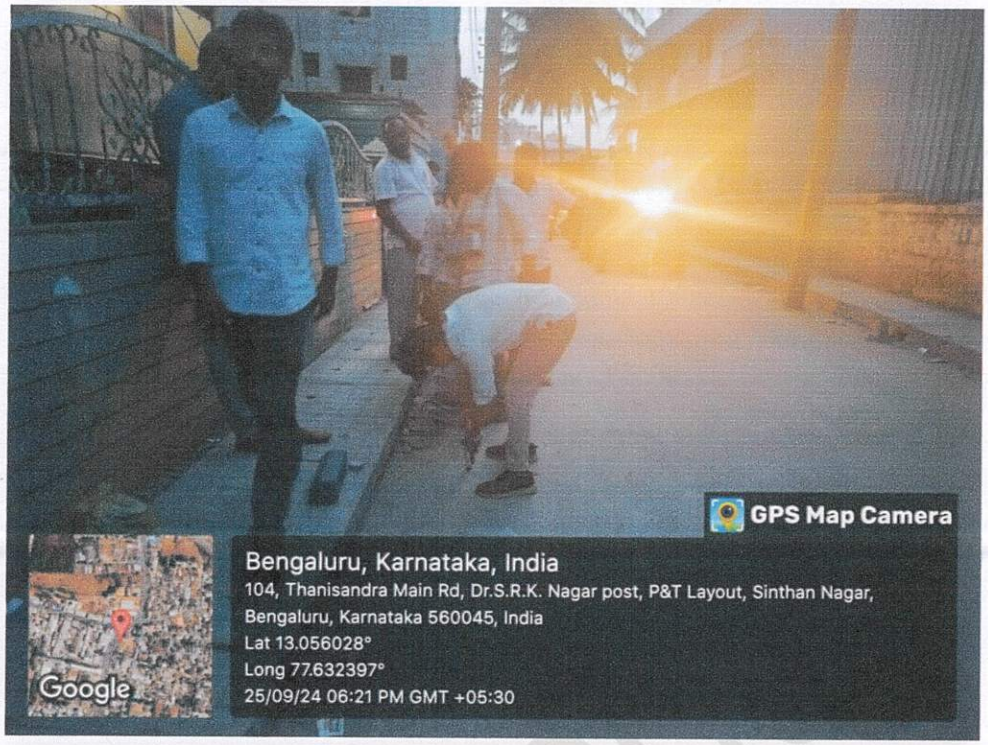
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ



1/10/24
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಟಿಪ್ಪಣಿ ಹಾಳೆ

ವಿಷಯ ..... ಪುಟದ ಸಂಖ್ಯೆ ..... -3-

..... ಕಡತದ ಸಂಖ್ಯೆ .....

ಕಂಡಿಕೆ ಸಂಖ್ಯೆ	ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು
(5)	ವಿಷಯ:– Package No.01 (Package Consists of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads, drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra. 2. Improvements to roads, drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli. 7. Improvements to roads drain and other allied works in Vinayaka Layout 1st stage, Defence layout and surrounding areas in ward No.09 Hebbala Kempapura ರ ಕಾಮಗಾರಿಯನ್ನು ಗುಣಭರವಸೆ ವಿಭಾಗದ ವತಿಯಿಂದ ಕೈಗೊಂಡ ತಪಾಸಣಾ ವರದಿ. ಉಲ್ಲೇಖ:– 1. ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಆದೇಶದ ಸಂಖ್ಯೆ:ಮು.ಆ/ಪಿಎಸ್ಆರ್ (ಜಿ)/1646/2022–23, ದಿ:01.08.2022. 2. ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಆದೇಶದ ಸಂಖ್ಯೆ:ಮು.ಆ/ಪಿಎಸ್ಆರ್(ಜಿ)/2383/2022–23, ದಿ: 14.09.2022 3. ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಬ್ಯಾಟರಾಯನಪುರ) ವಿಭಾಗದ ರವರ ಕಡತ ಸಲ್ಲಿಸಿದ ದಿನಾಂಕ: 12.09.2024. 4. ಮುಖ್ಯ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ) ರವರ ಸಭೆಯ ನಡವಳಿ ಸಂಖ್ಯೆ:02/2024–25,ದಿನಾಂಕ:31–07–2024. ****
(6)	ಮೇಲ್ಕಂಡ ವಿಷಯ ಹಾಗೂ ಉಲ್ಲೇಖಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, (ಬ್ಯಾಟರಾಯನಪುರ) ವಿಭಾಗದ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು Package No.01 (Package Consists of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads, drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra. 2. Improvements to roads, drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli. 7. Improvements to roads drain and other allied works in

ಕಂಡಿಕೆ ಸಂಖ್ಯೆ	ಟಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು
(7)	Vinayaka Layout 1st stage, Defence layout and surrounding areas in ward No.09 Hebbala Kempapura, Estimate Cost: 1000.00 Lakhs, Job No: 007-24-000009, (1st & Part Bill) ರ ಸದರಿ ಕಾಮಗಾರಿಗೆ Quality Assurance ವರದಿ ಪಡೆಯಲು ಕೋರಿ ಕಡತವನ್ನು ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಬ್ಯಾಟರಾಯನಪುರ) ರವರು ದಿನಾಂಕ: 12.09.2024 ರಂದು ಈ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಿರುತ್ತಾರೆ.
(8)	ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಬ್ಯಾಟರಾಯನಪುರ) ವಿಭಾಗದ ರವರು ಗುಣಭರವಸೆ ವರದಿ ನೀಡಲು ಕೋರಿದ್ದು, ಸದರಿ ಕಾಮಗಾರಿಯ ಗುಣಭರವಸೆ ವರದಿ ಕೋರಿರುವ ಕಾಮಗಾರಿಯ ಅಂದಾಜು ಮೊತ್ತವು 1000.00 ಲಕ್ಷಗಳಾಗಿದ್ದು, ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಆದೇಶದ ಸಂಖ್ಯೆ:ಮುಆ/ಪಿಎಸರ್(ಜಿ)/1646/2022–23, ದಿ:01.08.2022 ರಂತೆ ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ) ರವರ ವ್ಯಾಪ್ತಿಗೆ ಒಳಪಡುವ ಅಂಶವನ್ನು ತಮ್ಮ ಅವಗಾಹನೆಗೆ ಸಲ್ಲಿಸಿದೆ.
(9)	ಉಲ್ಲೇಖ ಪತ್ರ (1) ರಂತೆ ವಿಭಾಗದ ಅನುಷ್ಠಾನ ಅಭಿಯಂತರರು/ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು/ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ರವರಿಗೆ ಹಲವು ಬಾರಿ ಕಾಮಗಾರಿ ಪ್ರಗತಿಯಲ್ಲಿರುವಾಗ ಈ ಕಛೇರಿಗೆ ಮಾಹಿತಿ ನೀಡಲು ಸೂಚಿಸಿದರೂ ಸಹ ಸದರಿ ಬಿಲ್ಲಿನಂತೆ ನಿರ್ವಹಿಸಲಾಗಿರುವ ಕಾಮಗಾರಿಯು ಪ್ರಗತಿಯಲ್ಲಿರುವಾಗ ಮಾಹಿತಿಯನ್ನು ಈ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಿರುವುದಿಲ್ಲ. ಪ್ರಸ್ತುತವಾಗಿ ಉಲ್ಲೇಖ (3) ರಲ್ಲಿ 1ನೇ ಹಾಗೂ ಭಾಗಶಃ ಬಿಲ್ಲಿಗೆ ಗುಣಭರವಸೆ ವರದಿ ನೀಡಲು ಕೋರಿರುತ್ತಾರೆ. ಪ್ರಸ್ತುತವಾಗಿ ಉಲ್ಲೇಖ(4)ರ ಮುಖ್ಯ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ) ರವರ ಸಭೆಯ ನಡವಳಿಯಂತೆ 1ನೇ ಹಾಗೂ ಭಾಗಶಃ ಬಿಲ್ಲಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಸ್ಥಳಕ್ಕೆ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಬ್ಯಾಟರಾಯನಪುರ ಉಪವಿಭಾಗ), ಯೋಜನಾ ಸಮಾಲೋಚಕರು ಹಾಗೂ ಗುಣಭರವಸೆ ವಿಭಾಗದ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ರವರುಗಳೊಡನೆ ಭೇಟಿ ನೀಡಿದ ಸಂದರ್ಭದಲ್ಲಿ ಕಾಮಗಾರಿಯನ್ನು ಈಗಾಗಲೇ ನಿರ್ವಹಿಸಿದ್ದು, ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಆದೇಶದ ಸಂಖ್ಯೆ:ಮು.ಆ/ಪಿಎಸ್ಆರ್(ಜಿ)/1646/2022–23, ದಿ:01.08.2022 ರಂತೆ 1ನೇ ಹಾಗೂ ಭಾಗಶಃ ಬಿಲ್ಲಿನನ್ವಯ ಪೂರ್ಣಗೊಂಡಿರುವ ಕಾಮಗಾರಿಯನ್ನು **ಆಯ್ದ ಸ್ಥಳಗಳಲ್ಲಿ** ಅನುಷ್ಠಾನ ಅಭಿಯಂತರರ ಸಮ್ಮುಖದಲ್ಲಿ ಯೋಜನಾ ನಿರ್ವಹಣಾ ಸಮಾಲೋಚಕರು ಮಾದರಿಯನ್ನು ಸಂಗ್ರಹಿಸಲಾಗಿರುವ ವಿವರಗಳನ್ನು ಈ ಕೆಳಕಂಡಂತಿರುತ್ತದೆ. 1. From Chainage 31.00 Metre (LHS), Sanjeevinagar beside Aster CM1 Hospital ಸ್ಥಳದಲ್ಲಿ ರಸ್ತೆಗೆ ಹಾಕಿರುವ DBM & BC ಯ Bitumen Content and Gradation Test ಗಾಗಿ ಮಾದರಿಯನ್ನು ಸಂಗ್ರಹಿಸಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು. 2. C4, From Chainage 65.00 Metre (RHS), Sanjeevinagar beside Aster CM1 Hospital ಸ್ಥಳದಲ್ಲಿ ರಸ್ತೆಗೆ ಹಾಕಿರುವ DBM & BC ಯ Bitumen Content and Gradation Test ಗಾಗಿ ಮಾದರಿಯನ್ನು ಸಂಗ್ರಹಿಸಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು. 3. C7, From 88.00 Metre (RHS), Sanjeevinagar beside Aster CM1 Hospital ಸ್ಥಳದಲ್ಲಿ ರಸ್ತೆಗೆ ಹಾಕಿರುವ DBM & BC ಯ Bitumen Content and Gradation Test ಗಾಗಿ ಮಾದರಿಯನ್ನು ಸಂಗ್ರಹಿಸಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು. 4. In front of #29, Gourish House, Main Road LHS Side, Varadaraju Layout ಸ್ಥಳದಲ್ಲಿ Drain Side Wall (M20), Drain Cover Slab (M20) ಗಳಿಗೆ Rebound Hammer Test & Drain Side Wall (M20) ಗೆ Ultrasonic Pulse Velocity Test ಕೈಗೊಳ್ಳಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು.
(10)	

ಕಂಡಿಕೆ ಸಂಖ್ಯೆ	ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು

5. 3rd Cross Road RHS Side, Varadaraju Layout ಸ್ಥಳದಲ್ಲಿ Drain Side Wall (M20) ಗೆ Rebound Hammer Test & Ultrasonic Pulse Velocity Test ಕೈಗೊಳ್ಳಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು.
6. Near 6th Cross Road, Varadaraju Layout ಸ್ಥಳದಲ್ಲಿ Drain Side Wall (M20) ಗೆ Rebound Hammer Test & Ultrasonic Pulse Velocity Test ಕೈಗೊಳ್ಳಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು.
7. Basaveshwara Nilaya, 4th Cross Road, Varadaraju Layout ಸ್ಥಳದಲ್ಲಿ Culvert Cover Slab (M20) ಗೆ Rebound Hammer Test & Ultrasonic Pulse Velocity Test ಕೈಗೊಳ್ಳಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು.
8. Beside H. No. 67, 5th Cross Road, Varadaraju Layout ಸ್ಥಳದಲ್ಲಿ Culvert Cover Slab (M20) ಗೆ Rebound Hammer Test & Ultrasonic Pulse Velocity Test ಕೈಗೊಳ್ಳಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು.
9. At CH: 23.00mt, Nagavara A2B Beside Road ಸ್ಥಳದಲ್ಲಿ CC Road (M30), Drain Cover Slab (M20) ಗಳಿಗೆ Rebound Hammer Test & CC Road (M30) ಗೆ Ultrasonic Pulse Velocity Test ಕೈಗೊಳ್ಳಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು.
10. At CH: 47.00mt, Nagavara A2B beside Road ಸ್ಥಳದಲ್ಲಿ CC Road (M30) ಗೆ Rebound Hammer Test & Ultrasonic Pulse Velocity Test ಕೈಗೊಳ್ಳಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು.
11. At CH: 66.00mt, Nagavara A2B Beside Road ಸ್ಥಳದಲ್ಲಿ CC Road (M30) ಗೆ Rebound Hammer Test & Ultrasonic Pulse Velocity Test ಕೈಗೊಳ್ಳಲು ಯೋಜನಾ ಸಮಾಲೋಚಕರಿಗೆ ಸೂಚಿಸಲಾಯಿತು.

(11)

ಯೋಜನಾ ಸಮಾಲೋಚಕರು Drain Side Wall (M20), Drain Cover Slab (M20), Culvert Cover Slab (M20) & CC Road (M30) ಗಳಿಗೆ Rebound Hammer Test and Ultrasonic Pulse Velocity Test ಪರೀಕ್ಷೆಗಳನ್ನು ಕೈಗೊಂಡಿರುತ್ತಾರೆ. ಅಲ್ಲದೆ DBM & BC ಯ Bitumen Content and Gradation Test ಗಾಗಿ ಸಂಗ್ರಹಿಸಲಾಗಿರುವ ಮಾದರಿಗಳನ್ನು ಪರೀಕ್ಷಿಸಿ ಯೋಜನಾ ಸಮಾಲೋಚಕರು ವರದಿಯನ್ನು ಸಲ್ಲಿಸಿರುತ್ತಾರೆ. ಸದರಿ ಪರೀಕ್ಷಾ ವರದಿಗಳ ಆಧಾರದ ಮೇಲೆ ಗುಣಭರವಸೆ ವರದಿಯನ್ನು ತಯಾರಿಸಿದ್ದು, ಸದರಿ ವರದಿಯನ್ನು ತಮ್ಮ ಆದ್ಯ ಗಮನಕ್ಕೆ ಸಲ್ಲಿಸುತ್ತಾ ಒಪ್ಪಿದಲ್ಲಿ ಮುಂದಿನ ಕ್ರಮಕ್ಕಾಗಿ ಸಲ್ಲಿಸಿದೆ. ಮುಂದುವರೆದು ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರವರ ಕಛೇರಿ ಆದೇಶಗಳನ್ವಯ ಅನುಷ್ಠಾನ ಅಭಿಯಂತರರು ನಿರ್ಮಿಸಲಾಗುವ/ನಿರ್ವಹಿಸಲಾಗುವ ಕಾಮಗಾರಿ ಅಂಶಗಳ ಪರಿಮಾಣ, ಅಳತೆ ಹಾಗೂ ಗುಣಮಟ್ಟಕ್ಕೆ ನಿರ್ಮಾಣ ಘಟಕದ ಇಂಜಿನಿಯರ್‌ಗಳು ಸಂಪೂರ್ಣ ಜವಾಬ್ದಾರರಾಗಿರುತ್ತಾರೆ ಎಂದು ಸ್ಪಷ್ಟೀಕರಿಸುತ್ತಾ ಮತ್ತು ನಿರ್ಮಾಣ ಘಟಕದ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್‌ರವರು ಉಲ್ಲೇಖ (1) ರ ಮಾರ್ಗಸೂಚಿಯಲ್ಲಿ ನಮೂದಿಸಿರುವಂತೆ ಸಮಯೋಚಿತವಾಗಿ ಗುಣಮಟ್ಟದ ಸಾಮಾಗ್ರಿಗಳನ್ನು ಬಳಸಿ, ಸ್ಥಾಪಿತ ನಿರ್ಮಾಣ ಪದ್ಧತಿಗಳಂತೆ ನಿರ್ವಹಿಸಿರುವ ಬಗ್ಗೆ ಮತ್ತೊಮ್ಮೆ ದೃಢೀಕರಿಸಿಕೊಂಡು ಅಳತೆಗಳ ಪರಿಶೀಲನೆಯನ್ನು ಕಡ್ಡಾಯವಾಗಿ ಕೈಗೊಂಡು ಮತ್ತೊಮ್ಮೆ ಈ ಕೆಳಕಂಡ ಷರತ್ತುಗಳಿಗೆ ಒಳಪಟ್ಟು ಮುಂದಿನ ಸೂಕ್ತ ಕ್ರಮ ಕೈಗೊಳ್ಳಬಹುದಾಗಿದೆ ಎಂದು ಅಭಿಪ್ರಾಯಪಡಲಾಗಿದೆ.

ವಿಷಯ :

ಪುಟದ ಸಂಖ್ಯೆ 6

ಕಡತದ ಸಂಖ್ಯೆ SE/QA/PP/95/20-25

ಕಂಡಿಕೆ ಸಂಖ್ಯೆ	ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು

1. ಕಾಮಗಾರಿಯು ಈಗಾಗಲೇ 1ನೇ ಮತ್ತು ಭಾಗಶಃ ಬಿಲ್‌ನ್ನು ನಮೂದಿಸಿ ಸಲ್ಲಿಸಿರುವುದರಿಂದ ಸದರಿ ಕಾಮಗಾರಿಯ ಐಟಂವಾರು ಅಂಶಗಳನ್ನು, ಅಳತೆಗಳು ಮತ್ತು ಪರಿಮಾಣಗಳ ಬಗ್ಗೆ ಮತ್ತೊಮ್ಮೆ ಸಂಬಂಧಪಟ್ಟ ಅನುಷ್ಠಾನದ ಸಹಾಯಕ ಅಭಿಯಂತರರು, ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಮತ್ತು ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ರವರು ಖಾತರಿಪಡಿಸಿಕೊಳ್ಳುವುದು.
2. ಕಾಮಗಾರಿಯ ಗುಣಮಟ್ಟ ಎಲ್ಲಾ ಸಾಮಗ್ರಿಗಳನ್ನು ಸಮರ್ಪಕವಾಗಿ ವಿಶಿಷ್ಠ ಪ್ರಮಾಣದಲ್ಲಿ ವಿಶಿಷ್ಠತೆ/ವಿವರಣೆಗೆ ಅನುಗುಣವಾಗಿ ಬಳಸಿರುವ ಬಗ್ಗೆ ಅನುಷ್ಠಾನ ಅಭಿಯಂತರರು ಖಚಿತಪಡಿಸಿಕೊಳ್ಳುವುದು.
3. ಕಾಮಗಾರಿಯ ಅನುಷ್ಠಾನದ ಹಂತದಲ್ಲಿ ಯಾವುದೇ ಹಂತದಲ್ಲಿ ಕಳಪೆ ಕಾಮಗಾರಿ ಬಗ್ಗೆ ಸಾರ್ವಜನಿಕರಿಂದ, ಅಧಿಕಾರಿಗಳಿಂದ, ತನಿಖಾ ಸಂಸ್ಥೆಗಳಿಂದ ದೂರು ದಾಖಲಾಗಿರುವ ಬಗ್ಗೆ ತಮ್ಮ ಹಂತದಲ್ಲಿ ಪರಿಶೀಲಿಸಿ ಕಳಪೆ ಕೆಲಸ ಆಗಿಲ್ಲದಿರುವುದರ ಬಗ್ಗೆ ಖಾತರಿಪಡಿಸಿಕೊಳ್ಳುವುದು.
4. ಕಾಮಗಾರಿಯ ಟೆಂಡರ್/ಗುತ್ತಿಗೆ ಕರಾರಿನ ಷರತ್ತಿನಂತೆ ಕಾಮಗಾರಿ ಕೈಗೊಂಡಿರುವುದನ್ನು ಖಾತ್ರಿ ಪಡಿಸಿಕೊಳ್ಳುವುದು.
5. ಗುಣಭರವಸೆ ಹಾಗೂ ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗದಿಂದ ಕೈಗೊಂಡಿರುವ ಗುಣಮಟ್ಟ ಪರೀಕ್ಷಾ ವಿವರಗಳನ್ನು ಕಾಮಗಾರಿ ಅನುಷ್ಠಾನ ಮಾಡಲಾಗಿರುವ ಅಭಿಯಂತರರುಗಳು ಪರಿಶೀಲಿಸಿ ಮುಂದಿನ ಕ್ರಮವಹಿಸತಕ್ಕದ್ದು.
6. ಕಾಮಗಾರಿಯ ಟೆಂಡರ್/ಗುತ್ತಿಗೆ ಅವಧಿ ಮುಗಿದಿದ್ದಲ್ಲಿ ಹಾಗೂ ಪೂರ್ಣಗೊಳಿಸಲು ನಿಗಧಿತ ದಿನಾಂಕದ ನಂತರ ವಹಿಸಿದ್ದಲ್ಲಿ EOT ಅನ್ನು ಸಕ್ಷಮ ಪ್ರಾಧಿಕಾರದಿಂದ ಅನುಮೋದನೆಗೊಂಡಿರುವ ಬಗ್ಗೆ ಖಾತ್ರಿ ಪಡಿಸಿಕೊಳ್ಳುವುದು.
7. ಹೆಚ್ಚುವರಿ ಅಂಶಗಳು/ ಆಧಿಕ ಪ್ರಮಾಣಗಳು (EIRL/Work Slip) ಮತ್ತು ಸ್ಥಳ ಬದಲಾವಣೆಗಳು ಇದ್ದಲ್ಲಿ ಅವುಗಳು ಅನುಮೋದನೆಗೊಂಡಿರುವ ಬಗ್ಗೆ ಧೃಢೀಕರಿಸತಕ್ಕದ್ದು.

(12) ಸದರಿ ಕಾಮಗಾರಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಮೇಲಿನ ಆಯ್ದ ಸ್ಥಳಗಳಲ್ಲಿ Bitumen Content and Gradation Test, Ultrasonic Pulse Velocity Test & Rebound Hammer Test ಅನ್ನು ಯೋಜನಾ ಸಮಾಲೋಚಕರಾದ M/s Civil Pro Bangalore ರವರಿಂದ ಮಾಡಿಸಿ ಸಲ್ಲಿಸಿರುವ ಪರೀಕ್ಷಾ ಫಲಿತಾಂಶಗಳು ನಿರ್ದಿಷ್ಟ/ಮಾನದಂಡಗಳ ವಿಶೇಷಣೆಗಳಿಗೆ ಅನುಗುಣವಾಗಿರುವುದು ಕಂಡುಬಂದಿರುತ್ತದೆ. ಅದರಂತೆ ಸದರಿ ಫಲಿತಾಂಶದಲ್ಲಿನ ಅಂಶಗಳನ್ನು ಒಳಗೊಂಡಂತೆ ಗುಣಭರವಸೆಯ ವರದಿಯನ್ನು ತಯಾರಿಸಿ ಕಾಮಗಾರಿ ಅನುಷ್ಠಾನ ಅಧಿಕಾರಿಗಳಿಗೆ ಸಲ್ಲಿಸಲು ಹಾಗೂ ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಆದೇಶದ ಸಂಖ್ಯೆ:ಮುಆ/ಪಿಎಸ್‌ಆರ್/2383/2022-23, ದಿನಾಂಕ:14.09.2023 ರಂತೆ ವರದಿಯನ್ನು ಸಿದ್ದಪಡಿಸಿದ್ದು ವರದಿಯನ್ನು ಪರಿಶೀಲಿಸಿಕೊಂಡು ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಸಂಖ್ಯೆ:ಮುಆ/ಪಿಎಸ್‌ಆರ್(ಜಿ)/1646/2022-23, ದಿನಾಂಕ:01.08.2022 ರಂತೆ ವರದಿಯನ್ನು ನಿಯಮಾನುಸಾರ ಪರಿಶೀಲಿಸಿ ಅಗತ್ಯ ಕ್ರಮವಹಿಸಲು ಆದೇಶ ಕೋರಿ ಕಡತವನ್ನು ಸಲ್ಲಿಸಿದೆ.

1/10/24

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ)

(13) ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ)

ಕಂಡಿಕೆ (5) ರಿಂದ (12) ರವರೆಗಿನ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ) ವಿಭಾಗದವರ ವರದಿಯನ್ನು ಅನುಮೋದಿಸಿ ತಮ್ಮ ಅವಗಾಹನೆಗೆ ಹಾಗೂ ಮುಂದಿನ ಕ್ರಮಾನುಸರಣೆಗಾಗಿ ತಮ್ಮ ಅವಗಾಹನೆಗೆ ಸಲ್ಲಿಸಿದೆ.

01/x/24

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ)

14) ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ)

DEE (BTP)

01/10/24

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

15) EE - (B.TP)

NAME OF WORK : Package No.01 (Package Consists of 07 Works Rs.1000.00 Lakhs) 1.Improvements to roads, drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads, drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drains at Hoysala layout and adjacent area in ward No.08 Amruthhalli. 4. Improvements to road and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to road and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to road and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvement of roads, drains and other allied works in Vinayaka Layout 1st stage, Defence layout and surrounding areas in ward No.09 Hebbala Kempapura

PMC

First and Part Bill

(Book No.01)

CIVIL PRO

AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Date: 28-06-2024

To,

ASSISTANT EXECUTIVE ENGINEER

BYATARAYANAPURA SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of **"Package No.01 (Package Consists of 07 Works Rs.1000.00 Lakhs) 1.Improvements to roads, drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads, drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drains at Hoysala layout and adjacent area in ward No.08 Amruthhalli. 4. Improvements to road and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to road and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to road and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvement of roads, drains and other allied works in Vinayaka Layout 1st stage, Defence layout and surrounding areas in ward No.09 Hebbala Kempapura."**

Ref: 1. Work Order No: BBMP/EE/BTP/WO/56/2023-24

2. Job code: 007-24-000009

We are here with forwarding to M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Building, 3rd Floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064. First & Part Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs. 4,37,50,564.35/- (Rs. Four Crore Thirty Seven Lakhs Fifty Thousand Five Hundred and Sixty Four and Thirty Five Paisa Only).

Thanking you,

Yours faithfully,

ಸಹಾಯಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro Sig..... Date..... BANGALORE

For Civil Pro

R. KARTHIK RECHAN B.E, M.S (U.S.A)
PRINCIPAL CONSULTANT
CIVIL PRO

Attachments PMC Compliance report

NAME OF WORK:- Package No.01 (Package Consists of 07 Works Rs.1000.00 Lakhs) 1.Improvements to roads, drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads, drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drains at Hoysala layout and adjacent area in ward No.08 Amruthhalli. 4. Improvements to road and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to road and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to road and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvement of roads, drains and other allied works in Vinayaka Layout 1st stage, Defence layout and surrounding areas in ward No.09 Hebbala Kempapura."

Name of Client	:	EXECUTIVE ENGINEER, BYATARAYANAPURA DIVISION, BBMP, BANGALORE
Contractor/ Agency:		M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Building, 3rd Floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064.
Total Cost	:	Rs. 4,37,50,564.35/-
Date Of Inspection :		28-06-24
Status Of Bill	:	First & Part Bill
In the Presence of :		a) Assistant Engineer Byatarayanapura division, BBMP, Bangalore b) R. Karthik Rechan, Proprietor, M/S Civil Pro, BANGALORE

A.E.E

PMC COMPLIANCE REPORT		
Sl. No.	**Description of work**	**Comments/Observations**
1	Removing and refixing of Footpath slab (Arrived Rate)	Work done upto the Billed Quantity and the Quality is satisfactory

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3	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.and as per the directions of the Engineer-in-charge of the work .	Work done upto the Billed Quantity and the Quality is satisfactory
4	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 Using 40 mm nominal size graded crushed coarse aggregates and as per the directions of the Engineer-in-charge of the work .	Work done upto the Billed Quantity and the Quality is satisfactory
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates	Work done upto the Billed Quantity and the Quality is satisfactory

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6	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications . M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (The cost of steel reinforcement & formwork to be paid separately) complete as per specifications and directions of the Engineer in charge	Work done upto the Billed Quantity and the Quality is satisfactory
7	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications . M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (The cost of steel reinforcement & formwork to be paid separately) complete as per specifications and directions of the Engineer in charge	Work done upto the Billed Quantity and the Quality is satisfactory

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8	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification. All other type of structures .complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
10	Providing and laying 100mm thick pre-cast cover slabs over Road side drains/ utility ducts/ Rain water harvesting pit of width not exceeding 1000mm using M20 concrete reinforced with TMT bars Fe550 @ 6kg/m2 , Slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs whenever necessary for easy drainage of surface water including of labour, materials, scaffolding usage of machinery, curing, lead and lift charges etccomplete and as per the directions of the Engineer-in-charge of the work .	Work done upto the Billed Quantity and the Quality is satisfactory
11	Providing and Fixing pre cast covering Slab 230mm thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete and as per the directions of the Engineer-in-charge of the work .	Work done upto the Billed Quantity and the Quality is satisfactory
14	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory
15	Providing ruled pointing to coursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as per specification.	Work done upto the Billed Quantity and the Quality is satisfactory

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18	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately.complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
19	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
21	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 (For Grading -V Material) complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
22	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory

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23	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators,including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates . complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
24	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383:2016:, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
25	100 mm and down nominal size	Work done upto the Billed Quantity and the Quality is satisfactory
26	40 mm nominal size stone aggregates	Work done upto the Billed Quantity and the Quality is satisfactory

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27	20 mm nominal size stone aggregates	Work done upto the Billed Quantity and the Quality is satisfactory
28	6 mm nominal size stone aggregates	Work done upto the Billed Quantity and the Quality is satisfactory
29	Providing and filling sand M-Sand	Work done upto the Billed Quantity and the Quality is satisfactory
30	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 kg per m2 using mechanical means MORTH specification No.502	Work done upto the Billed Quantity and the Quality is satisfactory
31	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects. , Vol-III, Page No-35,Item No-5.12C of PWD SR 2023-24).	Work done upto the Billed Quantity and the Quality is satisfactory
32	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503 complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory

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33	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects. complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
40	Providing, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-2016 with latest ammendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials with electrofusion welding, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bedns, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. complete. NOTE: Upto 110mm dia Coil shall be used. For :HDPE PE 80 PN 6.0. 63mm dia.complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
43	Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3) complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
44	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km	Work done upto the Billed Quantity and the Quality is satisfactory

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NAME OF WORK : **Package No.01 (Package Consists of 07 Works Rs.1000.00 Lakhs) 1.Improvements to roads, drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads, drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drains at Hoysala layout and adjacent area in ward No.08 Amruthhalli. 4. Improvements to road and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to road and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to road and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvement of roads, drains and other allied works in Vinayaka Layout 1st stage, Defence layout and surrounding areas in ward No.09 Hebbala Kempapura**

Quality Control Reports

First and Part Bill

(Book No.01)

QC ABSTRACT

NAME OF WORK: Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

9	PCC(M10)	Compressive Strength(7days and 28days)	8 sets /200-250 cum	226.33	4	4
10	RCC(M20)	Compressive Strength(7days and 28days)	16 sets /600-650 cum	620.69	8	8
11	RCC(M20)	Compressive Strength(7days and 28days)	5 sets /60-100 cum	59.13	8	8
12	Cement Concrete Pavemet (M20)	Compressive Strength(7days and 28days)	8 sets /200-250 cum	207.73	8	8
13	GSB	SIEVE ANALYSIS	One Test		1	1
14	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
15	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
16	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
17	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
18	TACK COAT	Rate of spread	One Test		1	1
19	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2024-08-29-17** **Date: 22-03-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification .
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 20-03-24

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Civil Division
BBMP, Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2024-08-29-17** **Date: 17-04-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988 , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 20-03-24

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 269:2015**
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-08-29-17** **Date: 22-03-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage .Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 19-03-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7440	7758	51.7	48.3	30-70
4	10 mm	5140	12898	86.0	14.0	10-35
5	4.75 mm	1720	14618	97.5	2.5	0-5
6	Pan	382	15000	100.0	0	---

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-08-29-17** **Date: 22-03-24**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.25	–

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kottigehalli Sub Division
BBMP, Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-08-29-17** **Date: 21-03-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 19-03-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	–

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Assistant Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-08-29-17** **Date: 21-03-24**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.21	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
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BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2024-08-29-17** **Date: 21-03-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 19-03-24

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2024-08-29-17** **Date: 21-03-24**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	8.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2024-08-29-17** **Date: 20-03-24**

Project Name :

Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test: : 19-03-24

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.391	589	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	590	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	602	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Kodigehalli Sub Division
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Spectro Chemical Analysis, Physical, Non Destructive All Type of Metal Testing

Lab ID : **CP-2024-08-29-17** **Date: 21-03-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type / Grade : Sunvik

Date of test : 19-03-24

CHEMICAL ANALYSIS

Sl. No.	Chemical Contents	8mm	10mm	12mm	Max. Limits as per IS:1786-2008, Gr. Fe 550
1	Carbon (C) %	0.158	0.161	0.156	0.300 Max
2	Phosphor (P) %	0.035	0.041	0.042	0.050 Max
3	Sulphur (S) %	0.037	0.046	0.040	0.055 Max
4	Sulphur & Phosphorus %	0.082	0.060	0.078	0.100 Max

Note : The above material confirms to ASI S S 304 with respect to elements analysed

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2024-08-29-17** **Date: 25-03-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type /Size : Precast Cover Slab - 100mm Thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 20/03/2024

Grade of Slab : M20

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.51	100.48	1.116	4718	105.7	22.4	20.8	26.0
2	Cover Slab-2	77.53	100.52	1.122	4720	108.0	22.9	21.3	26.6
3	Cover Slab-3	77.49	100.51	1.118	4715	110.1	23.4	21.7	27.1

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2024-08-29-17** **Date: 25-03-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type /Size : Precast Cover Slab - 230mm Thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 20/03/2024

Grade of Slab : M20

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.52	230.55	2.815	4719	108.5	23.0	21.4	26.7
2	Cover Slab-2	77.54	230.51	2.814	4721	104.9	22.2	20.7	25.8
3	Cover Slab-3	77.57	230.56	2.822	4725	111.2	23.5	21.9	27.4

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : **CP-2024-08-29-17** **Date: 23-03-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type/Size : Solid concrete blocks size (400X150X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 19-03-24

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	152	199	12160	23.059	1896.3	1847.6	Not less than 1800Kg/m^3
2	400	150	202	12120	22.579	1863.0		
3	404	151	198	12079	21.541	1783.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2024-08-29-17** **Date: 23-03-24**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	149	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	152	200	
3	403	149	202	
4	400	151	203	
5	402	152	200	
6	399	152	200	
7	403	151	203	
8	404	149	200	
9	403	149	203	
10	403	149	199	
11	403	151	201	
12	401	152	200	
13	400	151	201	
14	402	150	202	
15	402	150	199	
16	401	149	200	
17	403	152	203	
18	401	152	202	
19	403	153	201	
20	401	151	200	
Average of 20	**402**	**151**	**201**	

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Lab ID : **CP-2024-08-29-17** **Date: 23-03-24**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	152	60757	256.7	4.2	4.2
2	400	151	60554	255.1	4.2	
3	399	151	60381	260.1	4.3	
4	402	152	61220	259.8	4.2	
5	401	149	59915	252.3	4.2	
6	401	152	60905	258.6	4.2	
7	403	152	61202	257.4	4.2	
8	403	152	61351	254.2	4.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Assistant Executive Engineer
Kodigehalli Sub Division
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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2024-08-29-17** **Date: 22-03-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-03-24

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 19-03-24

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	60	60	6	94	90-100
3	1.18 mm	140	200	20.0	80	70-100
4	600 micron	200	400	40.0	60	40-100
5	300 micron	120	520	52.0	48	5-70
6	150 micron	410	930	93.0	7.0	0-15
7	Pan	70	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2024-08-29-17** **Date: 22-03-24**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 30/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 25-04-24

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M10	23/04/2024	30/04/2024	150.79 X 150.94 X 150.20	22760	8.626	177.9	7.8	7.4
2	Coping Concrete	M10	23/04/2024	30/04/2024	150.81 X 150.33 X 150.71	22671	8.871	160.1	7.1	
3	Coping Concrete	M10	23/04/2024	30/04/2024	150.19 X 150.46 X 150.41	22598	8.535	163.6	7.2	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Date.....

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 21/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 25-04-24

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M10	23/04/2024	21/05/2024	150.17 X 150.13 X 150.58	22544	8.333	267.1	11.8	11.8
2	Coping Concrete	M10	23/04/2024	21/05/2024	150.57 X 150.10 X 150.52	22601	8.666	272.9	12.1	
3	Coping Concrete	M10	23/04/2024	21/05/2024	150.04 X 150.75 X 150.18	22618	8.486	260.5	11.5	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 30/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 25-04-24

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M10	23/04/2024	30/04/2024	150.55 X 150.77 X 150.07	22699	8.437	172.6	7.6	7.5
2	Coping Concrete	M10	23/04/2024	30/04/2024	150.61 X 150.67 X 150.99	22692	8.670	162.4	7.2	
3	Coping Concrete	M10	23/04/2024	30/04/2024	150.34 X 150.84 X 150.87	22678	8.715	178.3	7.9	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 21/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 25-04-24

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M10	23/04/2024	21/05/2024	150.05 X 150.06 X 150.74	22516	8.782	276.7	12.3	12.0
2	Coping Concrete	M10	23/04/2024	21/05/2024	150.40 X 150.25 X 150.43	22597	8.862	269.2	11.9	
3	Coping Concrete	M10	23/04/2024	21/05/2024	150.49 X 150.03 X 151.00	22578	8.622	264.9	11.7	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore
Sig.....
Date.....
CIVIL PRO BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 30/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 25-04-24

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M10	23/04/2024	30/04/2024	150.93 X 150.90 X 150.86	22776	8.688	165.3	7.3	7.4
2	Coping Concrete	M10	23/04/2024	30/04/2024	150.72 X 150.93 X 150.94	22748	8.312	164.7	7.2	
3	Coping Concrete	M10	23/04/2024	30/04/2024	150.12 X 150.43 X 150.81	22582	8.556	170.8	7.6	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 21/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 25-04-24

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M10	23/04/2024	21/05/2024	150.92 X 150.24 X 150.45	22674	8.865	272.5	12.0	12.0
2	Coping Concrete	M10	23/04/2024	21/05/2024	150.86 X 150.52 X 150.55	22707	8.864	269.9	11.9	
3	Coping Concrete	M10	23/04/2024	21/05/2024	150.39 X 150.93 X 150.91	22698	8.297	276.7	12.2	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 27/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-04-24

Customer ID : Vent Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M10	20/04/2024	27/04/2024	150.16 X 150.67 X 150.07	22624	8.959	164.2	7.3	7.5
2	Vent Concrete	M10	20/04/2024	27/04/2024	150.52 X 150.52 X 150.02	22657	8.736	173.2	7.6	
3	Vent Concrete	M10	20/04/2024	27/04/2024	150.03 X 150.45 X 150.98	22573	8.176	173.6	7.7	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 18/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage .Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-04-24

Customer ID : Vent Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M10	20/04/2024	18/05/2024	150.25 X 150.47 X 150.92	22607	8.830	273.2	12.1	12.1
2	Vent Concrete	M10	20/04/2024	18/05/2024	150.27 X 150.35 X 150.51	22593	8.598	274.6	12.2	
3	Vent Concrete	M10	20/04/2024	18/05/2024	150.37 X 150.02 X 150.19	22558	8.938	269.6	12.0	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-04-24

Customer ID : Vent Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M10	20/04/2024	27/04/2024	150.55 X 150.63 X 150.76	22678	8.524	179.4	7.9	7.5
2	Vent Concrete	M10	20/04/2024	27/04/2024	150.58 X 150.51 X 150.84	22664	8.991	174.0	7.7	
3	Vent Concrete	M10	20/04/2024	27/04/2024	150.67 X 150.18 X 150.12	22628	8.783	158.8	7.0	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-04-24

Customer ID : Vent Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M10	20/04/2024	18/05/2024	150.36 X 150.26 X 150.98	22594	8.610	262.1	11.6	12.0
2	Vent Concrete	M10	20/04/2024	18/05/2024	150.13 X 150.64 X 150.08	22616	8.221	270.6	12.0	
3	Vent Concrete	M10	20/04/2024	18/05/2024	150.50 X 150.32 X 150.25	22624	8.710	281.2	12.4	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 27/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-04-24

Customer ID : Vent Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M10	20/04/2024	27/04/2024	150.01 X 150.19 X 150.87	22529	8.199	161.2	7.2	7.5
2	Vent Concrete	M10	20/04/2024	27/04/2024	150.87 X 150.32 X 150.42	22678	8.900	179.8	7.9	
3	Vent Concrete	M10	20/04/2024	27/04/2024	150.88 X 150.44 X 150.72	22699	8.461	166.6	7.3	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 18/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-04-24

Customer ID : Vent Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M10	20/04/2024	18/05/2024	150.16 X 150.73 X 150.12	22634	8.476	280.7	12.4	12.2
2	Vent Concrete	M10	20/04/2024	18/05/2024	150.91 X 150.08 X 150.48	22648	8.318	278.4	12.3	
3	Vent Concrete	M10	20/04/2024	18/05/2024	150.49 X 150.76 X 150.56	22688	8.584	268.6	11.8	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 24/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-04-24

Customer ID : Bed Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bed Concrete	M10	17/04/2024	24/04/2024	150.78 X 150.87 X 150.43	22749	8.258	178.6	7.9	7.6
2	Bed Concrete	M10	17/04/2024	24/04/2024	150.13 X 150.98 X 150.02	22668	8.304	169.7	7.5	
3	Bed Concrete	M10	17/04/2024	24/04/2024	150.11 X 150.82 X 150.10	22640	8.457	169.3	7.5	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore
Sig.....
Date.....
BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 15/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-04-24

Customer ID : Bed Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bed Concrete	M10	17/04/2024	15/05/2024	150.13 X 150.25 X 151.00	22557	8.212	279.4	12.4	12.2
2	Bed Concrete	M10	17/04/2024	15/05/2024	150.88 X 150.65 X 150.98	22729	8.676	284.0	12.5	
3	Bed Concrete	M10	17/04/2024	15/05/2024	150.55 X 150.61 X 150.43	22674	8.112	267.2	11.8	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು Assistant Executive Engineer
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ Kodigehalli Sub Division BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 24/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-04-24

Customer ID : Bed Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bed Concrete	M10	17/04/2024	24/04/2024	150.86 X 150.70 X 150.06	22734	8.758	160.0	7.0	7.2
2	Bed Concrete	M10	17/04/2024	24/04/2024	150.28 X 150.46 X 150.90	22611	8.565	164.8	7.3	
3	Bed Concrete	M10	17/04/2024	24/04/2024	150.23 X 150.10 X 150.30	22550	8.410	161.5	7.2	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 15/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-04-24

Customer ID : Bed Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bed Concrete	M10	17/04/2024	15/05/2024	150.25 X 150.51 X 150.82	22614	8.913	279.4	12.4	12.3
2	Bed Concrete	M10	17/04/2024	15/05/2024	150.73 X 150.27 X 150.60	22651	8.866	281.2	12.4	
3	Bed Concrete	M10	17/04/2024	15/05/2024	150.44 X 150.53 X 150.80	22645	8.561	275.1	12.1	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 12/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 08-04-24

Customer ID : Drain Bottom Raft Concrete - Varadaraju layout main road LHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete - Varadaraju layout main road LHS	M20	05/04/2024	12/04/2024	150.20 X 150.68 X 150.07	22632	8.232	331.2	14.6	14.7
2	Drain Bottom Raft Concrete - Varadaraju layout main road LHS	M20	05/04/2024	12/04/2024	150.26 X 150.64 X 150.59	22636	8.803	335.3	14.8	
3	Drain Bottom Raft Concrete - Varadaraju layout main road LHS	M20	05/04/2024	12/04/2024	150.92 X 150.71 X 150.62	22745	8.173	331.1	14.6	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 03/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 08-04-24

Customer ID : Drain Bottom Raft Concrete - Varadaraju layout main road LHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete - Varadaraju layout main road LHS	M20	05/04/2024	03/05/2024	150.47 X 150.31 X 150.15	22616	8.457	528.3	23.4	23.6
2	Drain Bottom Raft Concrete - Varadaraju layout main road LHS	M20	05/04/2024	03/05/2024	150.32 X 150.51 X 150.83	22624	8.267	537.2	23.7	
3	Drain Bottom Raft Concrete - Varadaraju layout main road LHS	M20	05/04/2024	03/05/2024	150.26 X 150.30 X 150.90	22584	8.464	538.5	23.8	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 13/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 08-04-24

Customer ID : Drain Bottom Raft Concrete - Patalappa House Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete - Patalappa House Road	M20	06/04/2024	13/04/2024	150.30 X 150.31 X 150.46	22592	8.403	321.1	14.2	14.4
2	Drain Bottom Raft Concrete - Patalappa House Road	M20	06/04/2024	13/04/2024	150.90 X 150.14 X 150.47	22656	8.258	322.5	14.2	
3	Drain Bottom Raft Concrete - Patalappa House Road	M20	06/04/2024	13/04/2024	150.75 X 150.01 X 150.76	22613	8.840	333.6	14.8	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 04/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 08-04-24

Customer ID : Drain Bottom Raft Concrete - Patalappa House Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete - Patalappa House Road	M20	06/04/2024	04/05/2024	150.83 X 150.90 X 150.70	22760	8.936	541.1	23.8	23.7
2	Drain Bottom Raft Concrete - Patalappa House Road	M20	06/04/2024	04/05/2024	150.62 X 150.35 X 150.91	22646	8.941	526.6	23.3	
3	Drain Bottom Raft Concrete - Patalappa House Road	M20	06/04/2024	04/05/2024	150.08 X 150.25 X 150.96	22550	8.605	540.7	24.0	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 15/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 10-04-24

Customer ID : Drain Bottom Raft Concrete - 1st B Cross rd Jakkur Layout RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete - 1st B Cross rd Jakkur Layout RHS	M20	08/04/2024	15/04/2024	150.04 X 150.23 X 150.86	22540	8.687	317.5	14.1	14.6
2	Drain Bottom Raft Concrete - 1st B Cross rd Jakkur Layout RHS	M20	08/04/2024	15/04/2024	150.14 X 150.64 X 150.66	22616	8.579	336.2	14.9	
3	Drain Bottom Raft Concrete - 1st B Cross rd Jakkur Layout RHS	M20	08/04/2024	15/04/2024	150.07 X 150.47 X 151.00	22582	8.595	332.5	14.7	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Sig.....
Date.....
BANGALORE

FOR CIVIL Pro.

R KARTHIK REGHAN
Authorized Signatory
Quality Manager

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 06/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 10-04-24

Customer ID : Drain Bottom Raft Concrete - 1st B Cross rd Jakkur Layout RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete - 1st B Cross rd Jakkur Layout RHS	M20	08/04/2024	06/05/2024	150.29 X 150.45 X 150.86	22611	8.717	540.0	23.9	23.7
2	Drain Bottom Raft Concrete - 1st B Cross rd Jakkur Layout RHS	M20	08/04/2024	06/05/2024	150.95 X 150.12 X 150.49	22661	8.963	542.7	23.9	
3	Drain Bottom Raft Concrete - 1st B Cross rd Jakkur Layout RHS	M20	08/04/2024	06/05/2024	150.13 X 150.84 X 150.13	22647	8.732	530.4	23.4	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 17/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 12-04-24

Customer ID : Drain Bottom Raft Concrete - 7th cross road 2nd main road RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete - 7th cross road 2nd main road RHS	M20	10/04/2024	17/04/2024	150.59 X 150.62 X 150.89	22682	8.920	339.1	14.9	14.6
2	Drain Bottom Raft Concrete - 7th cross road 2nd main road RHS	M20	10/04/2024	17/04/2024	150.02 X 150.85 X 150.99	22629	8.490	331.9	14.7	
3	Drain Bottom Raft Concrete - 7th cross road 2nd main road RHS	M20	10/04/2024	17/04/2024	150.59 X 150.01 X 150.84	22590	8.180	319.0	14.1	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore
Sig.....
Date.....

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 08/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 12-04-24

Customer ID : Drain Bottom Raft Concrete - 7th cross road 2nd main road RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete - 7th cross road 2nd main road RHS	M20	10/04/2024	08/05/2024	150.23 X 150.55 X 150.17	22617	8.155	527.9	23.3	23.6
2	Drain Bottom Raft Concrete - 7th cross road 2nd main road RHS	M20	10/04/2024	08/05/2024	150.56 X 150.51 X 150.74	22662	8.785	535.7	23.6	
3	Drain Bottom Raft Concrete - 7th cross road 2nd main road RHS	M20	10/04/2024	08/05/2024	150.71 X 150.49 X 150.23	22680	8.944	538.7	23.8	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 15/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 10-04-24

Customer ID : Drain Side Wall Concrete - Varadaraju layout main road LHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete - Varadaraju layout main road LHS	M20	08/04/2024	15/04/2024	150.13 X 150.42 X 150.86	22583	8.283	320.1	14.2	14.6
2	Drain Side Wall Concrete - Varadaraju layout main road LHS	M20	08/04/2024	15/04/2024	150.55 X 150.75 X 150.20	22696	8.780	332.3	14.6	
3	Drain Side Wall Concrete - Varadaraju layout main road LHS	M20	08/04/2024	15/04/2024	150.97 X 150.47 X 150.55	22717	8.708	338.1	14.9	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 06/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 10-04-24

Customer ID : Drain Side Wall Concrete - Varadaraju layout main road LHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete - Varadaraju layout main road LHS	M20	08/04/2024	06/05/2024	150.09 X 150.21 X 150.67	22546	8.280	519.3	23.0	23.5
2	Drain Side Wall Concrete - Varadaraju layout main road LHS	M20	08/04/2024	06/05/2024	150.86 X 150.07 X 150.18	22639	8.216	539.0	23.8	
3	Drain Side Wall Concrete - Varadaraju layout main road LHS	M20	08/04/2024	06/05/2024	150.30 X 150.40 X 150.65	22604	8.531	537.1	23.8	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 17/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 12-04-24

Customer ID : Drain Side Wall Concrete - Patalappa House Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete - Patalappa House Road	M20	10/04/2024	17/04/2024	150.70 X 150.14 X 150.09	22626	8.359	337.9	14.9	14.5
2	Drain Side Wall Concrete - Patalappa House Road	M20	10/04/2024	17/04/2024	150.31 X 150.58 X 150.70	22633	8.165	327.8	14.5	
3	Drain Side Wall Concrete - Patalappa House Road	M20	10/04/2024	17/04/2024	150.60 X 150.76 X 150.33	22704	8.128	322.8	14.2	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 08/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 12-04-24

Customer ID : Drain Side Wall Concrete - Patalappa House Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete - Patalappa House Road	M20	10/04/2024	08/05/2024	150.90 X 150.90 X 150.48	22771	8.162	534.3	23.5	23.5
2	Drain Side Wall Concrete - Patalappa House Road	M20	10/04/2024	08/05/2024	150.80 X 150.76 X 150.50	22734	8.884	543.0	23.9	
3	Drain Side Wall Concrete - Patalappa House Road	M20	10/04/2024	08/05/2024	150.92 X 150.14 X 150.45	22660	8.579	527.5	23.3	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 19/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 15-04-24

Customer ID : Drain Side Wall Concrete - 1st B Cross rd Jakkur Layout RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete - 1st B Cross rd Jakkur Layout RHS	M20	12/04/2024	19/04/2024	150.87 X 150.70 X 150.69	22737	8.619	325.6	14.3	14.6
2	Drain Side Wall Concrete - 1st B Cross rd Jakkur Layout RHS	M20	12/04/2024	19/04/2024	150.85 X 150.05 X 150.23	22635	8.140	338.5	15.0	
3	Drain Side Wall Concrete - 1st B Cross rd Jakkur Layout RHS	M20	12/04/2024	19/04/2024	150.52 X 150.61 X 150.98	22671	8.706	329.2	14.5	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sig.....
Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 10/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 15-04-24

Customer ID : Drain Side Wall Concrete - 1st B Cross rd Jakkur Layout RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete - 1st B Cross rd Jakkur Layout RHS	M20	12/04/2024	10/05/2024	150.49 X 150.68 X 150.55	22676	8.944	539.0	23.8	23.5
2	Drain Side Wall Concrete - 1st B Cross rd Jakkur Layout RHS	M20	12/04/2024	10/05/2024	150.59 X 150.11 X 150.92	22604	8.283	527.4	23.3	
3	Drain Side Wall Concrete - 1st B Cross rd Jakkur Layout RHS	M20	12/04/2024	10/05/2024	150.47 X 150.12 X 150.49	22589	8.975	531.1	23.5	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 20/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 15-04-24

Customer ID : Drain Side Wall Concrete - 7th cross road 2nd main road RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete - 7th cross road 2nd main road RHS	M20	13/04/2024	20/04/2024	150.20 X 150.23 X 150.53	22565	8.377	318.2	14.1	14.1
2	Drain Side Wall Concrete - 7th cross road 2nd main road RHS	M20	13/04/2024	20/04/2024	150.03 X 150.07 X 150.52	22515	8.639	319.7	14.2	
3	Drain Side Wall Concrete - 7th cross road 2nd main road RHS	M20	13/04/2024	20/04/2024	150.92 X 150.24 X 150.19	22675	8.291	319.4	14.1	

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 11/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 15-04-24

Customer ID : Drain Side Wall Concrete - 7th cross road 2nd main road RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete - 7th cross road 2nd main road RHS	M20	13/04/2024	11/05/2024	150.38 X 150.30 X 150.96	22601	8.505	539.6	23.9	23.4
2	Drain Side Wall Concrete - 7th cross road 2nd main road RHS	M20	13/04/2024	11/05/2024	150.47 X 150.94 X 150.85	22713	8.493	531.4	23.4	
3	Drain Side Wall Concrete - 7th cross road 2nd main road RHS	M20	13/04/2024	11/05/2024	150.63 X 150.18 X 150.10	22622	8.622	520.4	23.0	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 23/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 18-04-24

Customer ID : Culvert Bottom Raft Concrete - Varadaraju layout main road LHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete - Varadaraju layout main road LHS	M20	16/04/2024	23/04/2024	151.00 X 150.72 X 150.28	22759	8.136	338.7	14.9	14.4
2	Culvert Bottom Raft Concrete - Varadaraju layout main road LHS	M20	16/04/2024	23/04/2024	150.49 X 150.81 X 150.91	22695	8.386	323.2	14.2	
3	Culvert Bottom Raft Concrete - Varadaraju layout main road LHS	M20	16/04/2024	23/04/2024	150.34 X 150.05 X 150.15	22560	8.197	320.7	14.2	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro. Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 14/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 18-04-24

Customer ID : Culvert Bottom Raft Concrete - Varadaraju layout main road LHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete - Varadaraju layout main road LHS	M20	16/04/2024	14/05/2024	150.03 X 150.63 X 150.43	22598	8.108	540.9	23.9	23.6
2	Culvert Bottom Raft Concrete - Varadaraju layout main road LHS	M20	16/04/2024	14/05/2024	150.55 X 150.89 X 150.43	22717	8.799	536.1	23.6	
3	Culvert Bottom Raft Concrete - Varadaraju layout main road LHS	M20	16/04/2024	14/05/2024	150.73 X 150.53 X 150.05	22688	8.631	529.5	23.3	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 24/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-04-24

Customer ID : Culvert Bottom Raft Concrete - Gangamma layout 1st main road RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete - Gangamma layout 1st main road RHS	M20	17/04/2024	24/04/2024	150.73 X 150.81 X 150.15	22731	8.665	328.6	14.5	14.3
2	Culvert Bottom Raft Concrete - Gangamma layout 1st main road RHS	M20	17/04/2024	24/04/2024	150.74 X 150.02 X 150.25	22614	8.543	320.1	14.2	
3	Culvert Bottom Raft Concrete - Gangamma layout 1st main road RHS	M20	17/04/2024	24/04/2024	150.66 X 150.53 X 150.45	22680	8.810	325.2	14.3	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro. Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 15/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 19-04-24

Customer ID : Culvert Bottom Raft Concrete - Gangamma layout 1st main road RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete - Gangamma layout 1st main road RHS	M20	17/04/2024	15/05/2024	150.02 X 150.34 X 150.25	22554	8.766	532.7	23.6	23.3
2	Culvert Bottom Raft Concrete - Gangamma layout 1st main road RHS	M20	17/04/2024	15/05/2024	150.02 X 150.27 X 150.32	22545	8.726	526.9	23.4	
3	Culvert Bottom Raft Concrete - Gangamma layout 1st main road RHS	M20	17/04/2024	15/05/2024	150.48 X 151.00 X 150.09	22721	8.845	522.6	23.0	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 25/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 20-04-24

Customer ID : Culvert Bottom Raft Concrete - Tuba layout Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete - Tuba layout Main Road	M20	18/04/2024	25/04/2024	150.29 X 150.58 X 150.09	22631	8.464	330.7	14.6	14.8
2	Culvert Bottom Raft Concrete - Tuba layout Main Road	M20	18/04/2024	25/04/2024	150.80 X 150.21 X 150.53	22652	8.572	336.2	14.8	
3	Culvert Bottom Raft Concrete - Tuba layout Main Road	M20	18/04/2024	25/04/2024	150.96 X 150.23 X 150.66	22678	8.839	337.2	14.9	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 16/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 20-04-24

Customer ID : Culvert Bottom Raft Concrete - Tuba layout Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete - Tuba layout Main Road	M20	18/04/2024	16/05/2024	150.90 X 150.28 X 150.81	22677	8.216	537.6	23.7	23.6
2	Culvert Bottom Raft Concrete - Tuba layout Main Road	M20	18/04/2024	16/05/2024	150.38 X 150.47 X 150.75	22627	8.696	531.2	23.5	
3	Culvert Bottom Raft Concrete - Tuba layout Main Road	M20	18/04/2024	16/05/2024	150.37 X 150.02 X 150.06	22559	8.787	535.6	23.7	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 27/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-04-24

Customer ID : Culvert Side Wall Concrete - Varadaraju layout main road LHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete - Varadaraju layout main road LHS	M20	20/04/2024	27/04/2024	150.69 X 150.40 X 150.17	22664	8.699	318.7	14.1	14.5
2	Culvert Side Wall Concrete - Varadaraju layout main road LHS	M20	20/04/2024	27/04/2024	150.21 X 150.99 X 150.22	22681	8.785	338.3	14.9	
3	Culvert Side Wall Concrete - Varadaraju layout main road LHS	M20	20/04/2024	27/04/2024	150.67 X 150.25 X 150.66	22638	8.584	330.0	14.6	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 18/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-04-24

Customer ID : Culvert Side Wall Concrete - Varadaraju layout main road LHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete - Varadaraju layout main road LHS	M20	20/04/2024	18/05/2024	150.49 X 150.26 X 150.80	22612	8.978	524.7	23.2	23.2
2	Culvert Side Wall Concrete - Varadaraju layout main road LHS	M20	20/04/2024	18/05/2024	150.00 X 150.61 X 150.26	22592	8.568	521.6	23.1	
3	Culvert Side Wall Concrete - Varadaraju layout main road LHS	M20	20/04/2024	18/05/2024	150.32 X 150.44 X 150.22	22614	8.449	528.9	23.4	

* The results obtained are satisfactory as per standard requirements.

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ಕೋಡಿಗೆಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 27/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-04-24

Customer ID : Culvert Side Wall Concrete - Gangamma layout 1st main road RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete - Gangamma layout 1st main road RHS	M20	20/04/2024	27/04/2024	150.87 X 150.20 X 150.66	22661	8.516	334.4	14.8	14.4
2	Culvert Side Wall Concrete - Gangamma layout 1st main road RHS	M20	20/04/2024	27/04/2024	150.61 X 150.35 X 150.83	22643	8.458	321.5	14.2	
3	Culvert Side Wall Concrete - Gangamma layout 1st main road RHS	M20	20/04/2024	27/04/2024	150.44 X 150.68 X 150.06	22668	8.878	321.5	14.2	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 18/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-04-24

Customer ID : Culvert Side Wall Concrete - Gangamma layout 1st main road RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete - Gangamma layout 1st main road RHS	M20	20/04/2024	18/05/2024	150.33 X 150.31 X 150.71	22596	8.828	528.4	23.4	23.2
2	Culvert Side Wall Concrete - Gangamma layout 1st main road RHS	M20	20/04/2024	18/05/2024	150.62 X 150.84 X 150.31	22720	8.784	525.9	23.1	
3	Culvert Side Wall Concrete - Gangamma layout 1st main road RHS	M20	20/04/2024	18/05/2024	150.86 X 150.77 X 150.35	22746	8.973	525.3	23.1	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kadugodi Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 29/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 24-04-24

Customer ID : Culvert Side Wall Concrete - Tuba layout Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete - Tuba layout Main Road	M20	22/04/2024	29/04/2024	150.04 X 150.14 X 150.18	22527	8.927	317.4	14.1	14.2
2	Culvert Side Wall Concrete - Tuba layout Main Road	M20	22/04/2024	29/04/2024	150.76 X 150.78 X 150.60	22731	8.981	319.3	14.0	
3	Culvert Side Wall Concrete - Tuba layout Main Road	M20	22/04/2024	29/04/2024	150.56 X 150.78 X 150.45	22703	8.165	325.0	14.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 20/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 24-04-24

Customer ID : Culvert Side Wall Concrete - Tuba layout Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete - Tuba layout Main Road	M20	22/04/2024	20/05/2024	150.49 X 150.74 X 150.84	22685	8.167	526.6	23.2	23.3
2	Culvert Side Wall Concrete - Tuba layout Main Road	M20	22/04/2024	20/05/2024	150.51 X 150.83 X 150.74	22702	8.405	526.9	23.2	
3	Culvert Side Wall Concrete - Tuba layout Main Road	M20	22/04/2024	20/05/2024	150.88 X 150.23 X 150.87	22667	8.524	528.8	23.3	

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 23/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 18-04-24

Customer ID : Drain wall Concrete - Bean bag road Tuba layout LHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain wall Concrete - Bean bag road Tuba layout LHS	M20	16/04/2024	23/04/2024	150.30 X 150.08 X 150.85	22558	8.808	324.0	14.4	14.3
2	Drain wall Concrete - Bean bag road Tuba layout LHS	M20	16/04/2024	23/04/2024	150.93 X 150.81 X 150.00	22763	8.369	331.2	14.5	
3	Drain wall Concrete - Bean bag road Tuba layout LHS	M20	16/04/2024	23/04/2024	150.74 X 150.89 X 150.08	22744	8.272	320.6	14.1	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 14/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 18-04-24

Customer ID : Drain wall Concrete - Bean bag road Tuba layout LHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain wall Concrete - Bean bag road Tuba layout LHS	M20	16/04/2024	14/05/2024	150.60 X 150.78 X 150.75	22707	8.582	536.4	23.6	23.4
2	Drain wall Concrete - Bean bag road Tuba layout LHS	M20	16/04/2024	14/05/2024	150.53 X 150.90 X 150.75	22714	8.642	527.4	23.2	
3	Drain wall Concrete - Bean bag road Tuba layout LHS	M20	16/04/2024	14/05/2024	150.06 X 150.30 X 150.25	22555	8.456	525.7	23.3	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 25/04/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 20-04-24

Customer ID : Drain wall Concrete - SC& ST Colony road opposite Shiva Basaveshwara temple RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain wall Concrete - SC& ST Colony road opposite Shiva Basaveshwara temple RHS	M20	18/04/2024	25/04/2024	150.31 X 150.74 X 150.34	22658	8.106	339.2	15.0	14.5
2	Drain wall Concrete - SC& ST Colony road opposite Shiva Basaveshwara temple RHS	M20	18/04/2024	25/04/2024	150.13 X 150.22 X 150.39	22552	8.310	324.1	14.4	
3	Drain wall Concrete - SC& ST Colony road opposite Shiva Basaveshwara temple RHS	M20	18/04/2024	25/04/2024	150.21 X 150.34 X 150.14	22582	8.164	322.9	14.3	

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 16/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 20-04-24

Customer ID : Drain wall Concrete - SC& ST Colony road opposite Shiva Basaveshwara temple RHS

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain wall Concrete - SC& ST Colony road opposite Shiva Basaveshwara temple RHS	M20	18/04/2024	16/05/2024	150.99 X 150.39 X 150.74	22708	8.213	532.6	23.5	23.4
2	Drain wall Concrete - SC& ST Colony road opposite Shiva Basaveshwara temple RHS	M20	18/04/2024	16/05/2024	150.80 X 150.28 X 150.59	22662	8.524	534.5	23.6	
3	Drain wall Concrete - SC& ST Colony road opposite Shiva Basaveshwara temple RHS	M20	18/04/2024	16/05/2024	150.61 X 150.82 X 150.22	22716	8.862	527.8	23.2	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 02/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-04-24

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.12 X 150.48 X 150.76	22591	8.427	337.8	15.0	14.7
2	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.78 X 150.10 X 150.46	22632	8.291	325.8	14.4	
3	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.31 X 150.73 X 150.99	22656	8.774	336.6	14.9	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 23/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-04-24

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.50 X 150.53 X 150.82	22655	8.989	525.4	23.2	23.3
2	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.21 X 150.18 X 150.39	22558	8.292	523.1	23.2	
3	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.09 X 150.58 X 150.42	22600	8.989	532.0	23.5	

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 02/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-04-24

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.43 X 150.79 X 150.93	22683	8.352	335.6	14.8	14.6
2	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.46 X 150.96 X 150.23	22714	8.873	336.0	14.8	
3	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.90 X 150.76 X 150.16	22749	8.469	320.0	14.1	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro. Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 23/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-04-24

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.99 X 150.02 X 150.11	22651	8.307	533.5	23.6	23.6
2	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.37 X 150.66 X 150.48	22655	8.212	535.5	23.6	
3	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.12 X 150.51 X 150.05	22594	8.720	530.3	23.5	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 02/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-04-24

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.90 X 150.81 X 150.67	22757	8.475	327.9	14.4	14.4
2	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.20 X 150.07 X 150.06	22541	8.620	318.6	14.1	
3	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.21 X 150.41 X 150.30	22593	8.808	333.9	14.8	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 23/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-04-24

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.77 X 150.77 X 150.70	22732	8.757	544.1	23.9	23.5
2	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.77 X 151.00 X 150.30	22765	8.874	529.4	23.3	
3	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.71 X 150.33 X 150.68	22656	8.699	528.0	23.3	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 02/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-04-24

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.81 X 150.37 X 150.17	22677	8.714	323.6	14.3	14.2
2	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.34 X 150.15 X 150.29	22574	8.624	323.6	14.3	
3	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.31 X 150.72 X 150.33	22654	8.406	320.1	14.1	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 23/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-04-24

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.13 X 150.79 X 150.36	22639	8.957	528.1	23.3	23.5
2	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.80 X 150.74 X 150.52	22732	8.146	530.7	23.3	
3	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.30 X 150.30 X 150.41	22589	8.983	539.0	23.9	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 02/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-04-24

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.75 X 150.79 X 150.61	22732	8.906	326.8	14.4	14.7
2	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.99 X 150.67 X 150.92	22751	8.384	334.1	14.7	
3	Culvert Ramp Concrete	M20	25/04/2024	02/05/2024	150.78 X 150.82 X 150.26	22740	8.519	338.9	14.9	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Hegdigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 23/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-04-24

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.42 X 150.29 X 150.67	22607	8.108	531.3	23.5	23.2
2	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.09 X 150.06 X 150.16	22524	8.910	521.1	23.1	
3	Culvert Ramp Concrete	M20	25/04/2024	23/05/2024	150.99 X 150.40 X 150.35	22708	8.815	524.3	23.1	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kothegehalli Sub Division
BBMP, Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 09/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.01 X 150.07 X 150.02	22513	8.308	489.3	21.7	21.6
2	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.79 X 150.69 X 150.30	22723	8.431	496.7	21.9	
3	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.31 X 150.06 X 150.72	22556	8.955	476.1	21.1	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 30/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.28 X 150.33 X 150.99	22591	8.682	769.7	34.1	34.2
2	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.12 X 150.41 X 150.73	22580	8.216	777.0	34.4	
3	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.33 X 150.79 X 150.43	22668	8.101	776.2	34.2	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 09/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads.drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.41 X 150.97 X 150.69	22708	8.702	485.4	21.4	21.6
2	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.98 X 150.34 X 150.56	22699	8.577	499.1	22.0	
3	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.09 X 150.71 X 150.69	22620	8.280	484.1	21.4	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Dat**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements t roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.92 X 150.62 X 150.98	22731	8.510	785.8	34.6	34.6
2	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.68 X 150.11 X 150.96	22618	8.991	777.1	34.4	
3	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.90 X 150.67 X 150.01	22737	8.221	790.6	34.8	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 09/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	151.00 X 150.77 X 150.71	22765	8.224	492.1	21.6	21.6
2	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.98 X 150.59 X 150.19	22737	8.795	495.6	21.8	
3	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.21 X 150.40 X 150.63	22592	8.617	482.6	21.4	

* The results obtained are satisfactory as per standard requirements.

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Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 30/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.11 X 150.26 X 150.06	22556	8.643	771.1	34.2	34.6
2	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.38 X 150.54 X 150.58	22638	8.961	787.1	34.8	
3	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.07 X 150.21 X 150.11	22541	8.862	787.0	34.9	

* The results obtained are satisfactory as per standard requirements.

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Page 1/1
****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 09/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.75 X 150.20 X 150.14	22642	8.589	483.6	21.4	21.3
2	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.32 X 150.33 X 150.33	22599	8.993	477.4	21.1	
3	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.57 X 150.70 X 150.93	22691	8.719	487.4	21.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 30/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.90 X 150.75 X 150.30	22749	8.380	783.4	34.4	34.3
2	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.55 X 150.04 X 150.78	22589	8.158	769.6	34.1	
3	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.37 X 150.45 X 150.92	22623	8.553	778.0	34.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 09/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.97 X 150.06 X 150.53	22654	8.235	476.1	21.0	21.6
2	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.01 X 150.55 X 150.12	22583	8.323	493.1	21.8	
3	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.28 X 150.86 X 150.01	22673	8.727	498.5	22.0	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬೆಂಗಳೂರು-೯೦

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-08-29-17 **Date: 30/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 30/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.49 X 150.33 X 150.50	22623	8.159	776.0	34.3	34.5
2	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.66 X 151.00 X 150.00	22750	8.749	792.4	34.8	
3	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.98 X 150.61 X 150.80	22739	8.666	784.7	34.5	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

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Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 09/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.21 X 150.19 X 150.27	22559	8.820	482.8	21.4	21.4
2	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.61 X 150.61 X 150.23	22682	8.420	477.3	21.0	
3	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.35 X 150.86 X 150.35	22683	8.417	491.6	21.7	

* The results obtained are satisfactory as per standard requirements.

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ಬೆಂಗಳೂರು-೯

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 30/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.88 X 150.43 X 150.09	22698	8.494	777.4	34.2	34.5
2	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.65 X 150.41 X 150.81	22659	8.116	785.7	34.7	
3	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	151.00 X 150.55 X 150.05	22733	8.938	787.0	34.6	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 09/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 09/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.07 X 150.14 X 150.28	22532	8.968	494.2	21.9	21.9
2	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.62 X 150.73 X 150.68	22703	8.438	498.1	21.9	
3	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.65 X 150.25 X 150.75	22635	8.857	495.8	21.9	

* The results obtained are satisfactory as per standard requirements.

ಕಡಾಯಕ ಅಭಿಯಂತರರು
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ಕಡಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-26

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 30/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.27 X 150.63 X 150.82	22636	8.141	778.6	34.4	34.3
2	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.97 X 150.79 X 150.78	22763	8.531	780.4	34.3	
3	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.48 X 150.68 X 150.50	22674	8.103	775.4	34.2	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

B KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 09/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.84 X 150.86 X 150.81	22756	8.170	490.5	21.6	21.6
2	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.23 X 150.12 X 150.03	22554	8.358	479.2	21.2	
3	Cement Concrete Pavement	M30	02/05/2024	09/05/2024	150.71 X 150.27 X 150.63	22647	8.370	495.4	21.9	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬೆಂಗಳೂರು-೯೦

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-29-17** **Date: 30/05/2024**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-05-24

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-೯೦

Date of test : 30/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.99 X 150.35 X 150.14	22701	8.338	787.8	34.7	34.7
2	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.74 X 150.27 X 150.24	22653	8.316	788.5	34.8	
3	Cement Concrete Pavement	M30	02/05/2024	30/05/2024	150.57 X 150.00 X 150.96	22586	8.130	778.5	34.5	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2024-RW-08-29-17** **Date: 11-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 09-05-24

Type of Mix : GSB (Granular Sub Base) Grade-V

Date of Test : 09-05-24

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	600	600	6.00	94.00	80-100
26.5	2179	2779	27.79	72.21	55-90
9.5	1292	4071	40.71	59.29	35-65
4.75	1490	5561	55.61	44.39	25-50
2.36	3000	8561	85.61	14.39	10-20
0.85	700	9261	92.61	7.39	2-10
0.425	500	9761	97.61	2.39	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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FOR CIVIL Pro.
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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2024-RW-08-29-17** **Date: 15-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 13-05-24

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 13-05-24

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Quality Manager

Page 1/1
End of Report

TEST RESULTS OF GRADATION FOR WMM

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Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Type of Mix : WMM (Wet Mix Macadam)

Date of test : 13-05-24

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	320	320	2.9	97.1	95-100
22.4	2260	2580	23.5	76.5	60-80
11.2	2280	4860	44.2	55.8	40-60
4.75	2260	7120	64.7	35.3	25-40
2.36	1630	8750	79.5	20.5	15-30
0.6	629	9379	85.3	14.7	8-22
0.075	1340	10719	97.4	2.6	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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FOR CIVIL Pro.

Sig.....
Date.....

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Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 13-05-24

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 13-05-24

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	325	325	3.0	97.0	95-100
22.4	2285	2610	23.7	76.3	60-80
11.2	2255	4865	44.2	55.8	40-60
4.75	2210	7075	64.3	35.7	25-40
2.36	1630	8705	79.1	20.9	15-30
0.6	650	9355	85.0	15.0	8-22
0.075	1400	10755	97.8	2.2	0-5

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2024-RW-08-29-17** **Date: 16-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	360	360	3.3	96.7	95-100
22.4	2260	2620	23.8	76.2	60-80
11.2	2179	4799	43.6	56.4	40-60
4.75	2251	7050	64.1	35.9	25-40
2.36	1640	8690	79.0	21.0	15-30
0.6	623	9313	84.7	15.3	8-22
0.075	1520	10833	98.5	1.5	0-5

* The results obtained are satisfactory as per standard requirements.

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Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 14-05-24

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 14-05-24

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	321	321	2.9	97.1	95-100
22.4	2259	2580	23.5	76.5	60-80
11.2	2235	4815	43.8	56.2	40-60
4.75	2262	7077	64.3	35.7	25-40
2.36	1621	8698	79.1	20.9	15-30
0.6	650	9348	85.0	15.0	8-22
0.075	1330	10678	97.1	2.9	0-5

* The results obtained are satisfactory as per standard requirements.

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Date of Receipt : 14-05-24

Type of Mix : WMM (Wet Mix Macadam)

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Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	335	335	3.0	97.0	95-100
22.4	2245	2580	23.5	76.5	60-80
11.2	2100	4680	42.5	57.5	40-60
4.75	2241	6921	62.9	37.1	25-40
2.36	1611	8532	77.6	22.4	15-30
0.6	613	9145	83.1	16.9	8-22
0.075	1420	10565	96.0	4.0	0-5

* The results obtained are satisfactory as per standard requirements.

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Assistant Engineer
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IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	310	310	2.8	97.2	95-100
22.4	2241	2551	23.2	76.8	60-80
11.2	2300	4851	44.1	55.9	40-60
4.75	2400	7251	65.9	34.1	25-40
2.36	1700	8951	81.4	18.6	15-30
0.6	700	9651	87.7	12.3	8-22
0.075	1210	10861	98.7	1.3	0-5

* The results obtained are satisfactory as per standard requirements.

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Type of Mix : WMM (Wet Mix Macadam)

Date of test : 15-05-24

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	317	317	2.9	97.1	95-100
22.4	2262	2579	23.4	76.6	60-80
11.2	2183	4762	43.3	56.7	40-60
4.75	2261	7023	63.8	36.2	25-40
2.36	1621	8644	78.6	21.4	15-30
0.6	625	9269	84.3	15.7	8-22
0.075	1340	10609	96.4	3.6	0-5

* The results obtained are satisfactory as per standard requirements.

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Lab ID : **CP-2024-RW-08-29-17** **Date: 17-05-24**

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Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 15-05-24

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 15-05-24

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	360	360	3.3	96.7	95-100
22.4	2270	2630	23.9	76.1	60-80
11.2	2200	4830	43.9	56.1	40-60
4.75	2290	7120	64.7	35.3	25-40
2.36	1750	8870	80.6	19.4	15-30
0.6	700	9570	87.0	13.0	8-22
0.075	1228	10798	98.2	1.8	0-5

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

End of Report

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : **CP-2024-RW-08-29-17** **Date: 15-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

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Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 13-05-24

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 13-05-24

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : **CP-2024-RW-08-29-17** **Date: 15-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 13-05-24

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 13-05-24

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.2	298.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.9	72.8
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.1	225.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.2	0.2
5	Aggregate impact value	(B/A)*100	24.4	24.4
6	Aggregate impact value (Mean of two tests)	Pecentage	24.4	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-2024-RW-08-29-17** **Date: 15-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 13-05-24

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 13-05-24

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Padigehalli Sub Division
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CIVIL PRO Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-2024-RW-08-29-17** **Date: 15-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 13-05-24

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 13-05-24

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.0%	
Combined Flakiness and Elongation Index for WMM	24.5%	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-2024-RW-08-29-17** **Date: 15-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 13-05-24

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 13-05-24

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.4%	
Combined Flakiness and Elongation Index for WMM	24.2%	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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CIVIL PRO BANGALORE Sig..... Date.....

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Quality Manager

Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : **CP-2024-RW-08-29-17** **Date: 20-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer's Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 17-05-24

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)

Date of test : 17-05-24

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	285	Min. 220°C
	Fire point, °C	295	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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BBMP, Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-2024-RW-08-29-17 **Date: 24-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-05-24

Type of Mix : DBM-Plant (Dense Bituminous Macadam)

Date of test : 22-05-24

Weight of Sample : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	650	1250	25.00	75.00	56-80
4.75	1750	3000	60.00	40.00	38-54
2.36	400	3400	68.00	32.00	28-42
0.3	1000	4400	88.00	12.00	7-21
0.075	310	4710	94.20	5.80	2-8
PAN	290	5000	0.00	0	0

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Yelahanka Sub Division
BBMP, Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

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R KARTHIK RECHAN
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End of Report

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID : **CP-2024-RW-08-29-17** **Date: 25-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-05-24

Type of Mix : DBM (Dense Bituminous Macadam)

Date of test : 22-05-24

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	15.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	8.0		
Strength	Aggregate Impact Value	23.0	Maximum 27%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Bodigehalli Sub Division
BBMP, Bangalore

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-2024-RW-08-29-17** **Date: 25-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-05-24

Type of Mix : DBM (Dense Bituminous Mecadam)

Date of test : 22-05-24

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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FOR CIVIL Pro

T. KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-2024-RW-08-29-17** **Date: 25-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 22-05-24

Type of Mix : DBM(Dense Bitumnous Macadam)

Date of test : 22-05-24

Type of Binder : 60/70

% of Binder Used : 4.5%

Weight of Aggregate : 200.0 gm

Weight of Binder : 9.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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Quality Manager

****End of Report****

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2024-RW-08-29-17** **Date: 04-06-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 03-06-24

Type of Mix : DBM (Dense Bituminous Macadam) - From NH to Sanjeevininagar

Date of test : 03-06-24

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479	478.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.6	4.70
7	Average percentage	%	4.65	

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Lab ID : CP-2024-RW-08-29-17 Date: 04-06-24

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.4	14.4	3.01	97.0	90-100
19	24	38.4	8.02	92.0	71-95
13.2	120	158.4	33.07	66.9	56-80
4.75	96	254.4	53.11	46.9	38-54
2.36	80	334.4	69.81	30.2	28-42
0.3	62.4	396.8	82.84	17.2	7-21
0.075	52.8	449.6	93.86	6.1	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 478.5

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	20	20	4.18	95.8	90-100
19	50	70	14.63	85.4	71-95
13.2	115	185	38.66	61.3	56-80
4.75	86	271	56.64	43.4	38-54
2.36	50	321	67.08	32.9	28-42
0.3	72	393	82.13	17.9	7-21
0.075	50	443	92.58	7.4	2-8

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.
R/KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-2024-RW-08-29-17 **Date: 06-06-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 05-06-24

Type of Mix : DBM (Dense Bituminous Macadam) - Gadwin public school to Amco layout

Date of test : 05-06-24

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	478.5	478.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.7	4.70
7	Average percentage	%	4.70	

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Lab ID : CP-2024-RW-08-29-17 **Date: 06-06-24**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 478.5

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	20	20	4.18	95.8	90-100
19	34	54	11.29	88.7	71-95
13.2	124	178	37.20	62.8	56-80
4.75	100	278	58.10	41.9	38-54
2.36	50	328	68.55	31.5	28-42
0.3	62	390	81.50	18.5	7-21
0.075	52	442	92.37	7.6	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 478.5

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	15	15	3.13	96.9	90-100
19	55	70	14.63	85.4	71-95
13.2	120	190	39.71	60.3	56-80
4.75	90	280	58.52	41.5	38-54
2.36	40	320	66.88	33.1	28-42
0.3	74	394	82.34	17.7	7-21
0.075	60	454	94.88	5.1	2-8

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

Assistant Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-2024-RW-08-29-17** **Date: 29-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-05-24

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 27-05-24

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
FOR CIVIL Pro BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : **CP-2024-RW-08-29-17** **Date: 30-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-05-24

Type of Mix : BC (Bituminous Concrete)

Date of test : 27-05-24

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP. Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quallity Manager

End of Report

TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-2024-RW-08-29-17** **Date: 30-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-05-24

Type of Mix : BC (Bituminous Concrete)

Date of test : 27-05-24

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-2024-RW-08-29-17** **Date: 30-05-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 27-05-24

Type of Mix : BC(Bitumenous Concrete)

Date of test : 27-05-24

Type of Binder : 60/70

% of Binder Used : 5.4%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.8 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig. Date. BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2024-RW-08-29-17** **Date: 05-06-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-06-24

Type of Mix : BC (Bituminous Concrete) - From NH to Sanjeevininagar

Date of test : 04-06-24

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.60	5.50
7	Average percentage	%	5.6	

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.com, civilproexperts@gmail.com

Lab ID : **CP-2024-RW-08-29-17** **Date: 05-06-24**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	20	20	4.2	95.8	90-100
9.5	62	82	17.3	82.7	70-88
4.75	112	194	40.9	59.1	53-71
2.36	60	254	53.6	46.4	42-58
1.18	29	283	59.7	40.3	34-48
0.6	25	308	65.0	35.0	26-38
0.3	46	354	74.7	25.3	18-28
0.15	45	399	84.2	15.8	12-20
0.075	40	439	92.6	7.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	30	30	6.3	93.7	90-100
9.5	52	82	17.3	82.7	70-88
4.75	122	204	43.0	57.0	53-71
2.36	50	254	53.5	46.5	42-58
1.18	10	264	55.6	44.4	34-48
0.6	65	329	69.3	30.7	26-38
0.3	40	369	77.8	22.2	18-28
0.15	33	402	84.7	15.3	12-20
0.075	47	449	94.6	5.4	4-10

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
BWSSB, Bangalore

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2024-RW-08-29-17** **Date: 07-06-24**

Project Name : Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 06-06-24

Type of Mix : BC (Bituminous Concrete) - Gadwin public school to Amco layout

Date of test : 06-06-24

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.50	5.50
7	Average percentage	%	5.5	

Assistant Executive Engine
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL PRO

CIVIL Pro Sig..... Date..... BANGALORE

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Lab ID : **CP-2024-RW-08-29-17** **Date: 07-06-24**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	25	25	5.3	94.7	90-100
9.5	64	89	18.8	81.2	70-88
4.75	114	203	42.8	57.2	53-71
2.36	62	265	55.8	44.2	42-58
1.18	30	295	62.2	37.8	34-48
0.6	30	325	68.5	31.5	26-38
0.3	47	372	78.4	21.6	18-28
0.15	35	407	85.8	14.2	12-20
0.075	45	452	95.3	4.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	35	35	7.4	92.6	90-100
9.5	55	90	19.0	81.0	70-88
4.75	125	215	45.3	54.7	53-71
2.36	56	271	57.1	42.9	42-58
1.18	20	291	61.3	38.7	34-48
0.6	50	341	71.9	28.1	26-38
0.3	41	382	80.5	19.5	18-28
0.15	32	414	87.2	12.8	12-20
0.075	20	434	91.5	8.5	4-10

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-2024-RW-08-29-17** **Date: 05-06-24**

Project Name :

Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 04-06-24

Type of Mix : Tack coat

Date of test : 04-06-24

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.267
7	Average	Kg/sq.m	0.261	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
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End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-2024-RW-08-29-17** **Date: 07-06-24**

Project Name :

Package No.01 (Package Consits of 07 Works Rs. 1000.00 Lakhs) 1.Improvements to roads,drain and construction of culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra . 2. Improvements to roads,drain and construction of culverts at Saraipalya and surrounding areas in ward no.7 Thanisandra. 3. Improvements to roads and drain at Hoysala layout and adjacent area in ward No.08 Amruthhalli .4. Improvements to roads and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli. 5. Improvements to roads and drains at Varadraju layout in ward No 08 Amruthhalli .6. Improvements to roads and drains at Karimuniyappa layout in ward No 08 Amruthhalli . 7. Improvements to roads, drain and other allied works in Vinayaka Layout 1st stage ,Defence layout and surrounding areas in ward No.09 Hebbala Kempapura.

Agency : M/s. SMLP Asphalts, Prop. Sri. B B Umesha, No.1265, SMLP Asphalts, Karnataka Bank Buliding, 3rd floor, Major Sandeep Unnikrishnan Road, Yelahanka New Town, Bengaluru-560064

Customer Reference : BBMP/EE/BTP/WO/56/2023-24

Date of Receipt : 06-06-24

Type of Mix : Tack coat

Date of test : 06-06-24

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.256
7	Average	Kg/sq.m	0.250	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

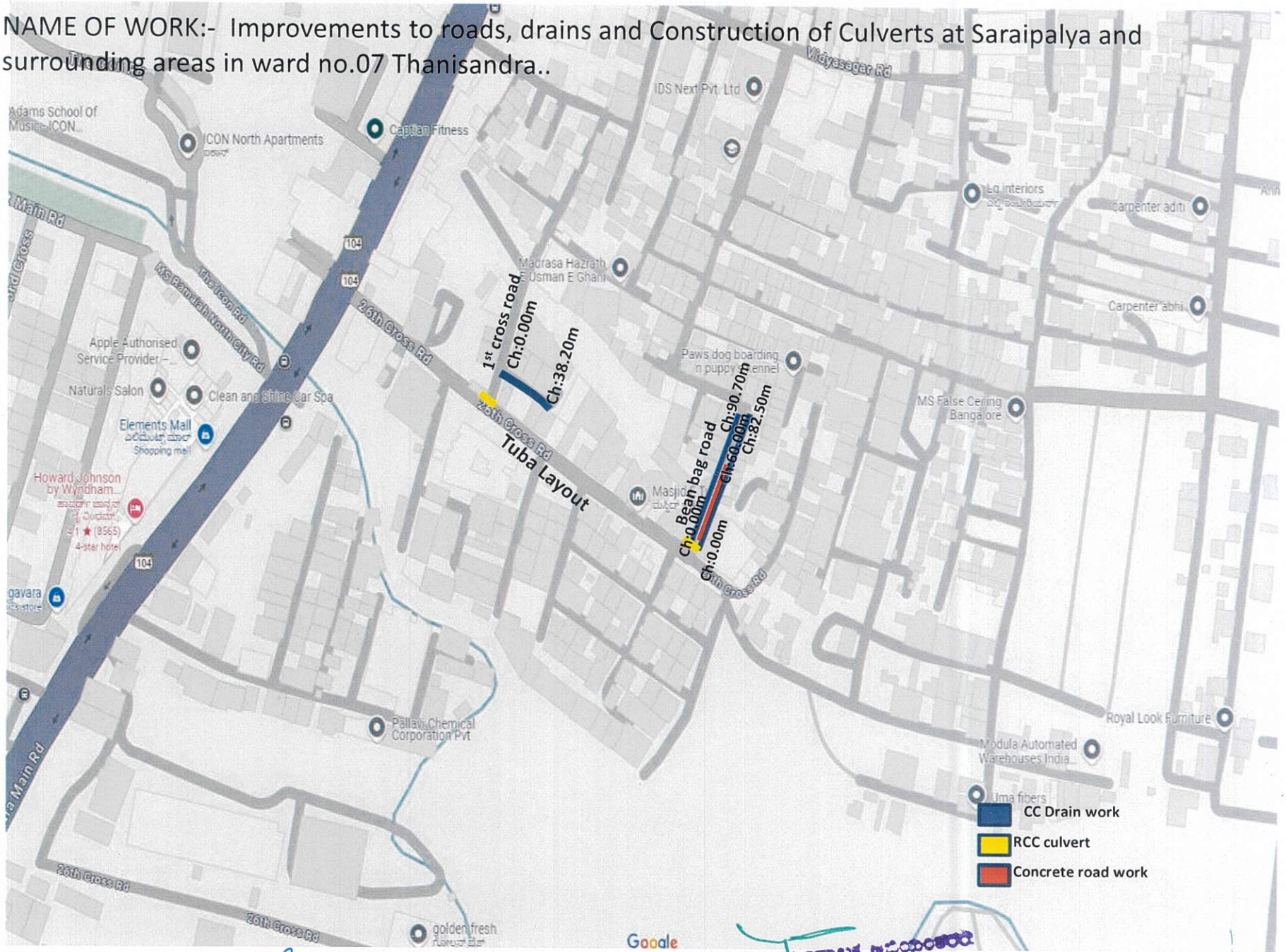
CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

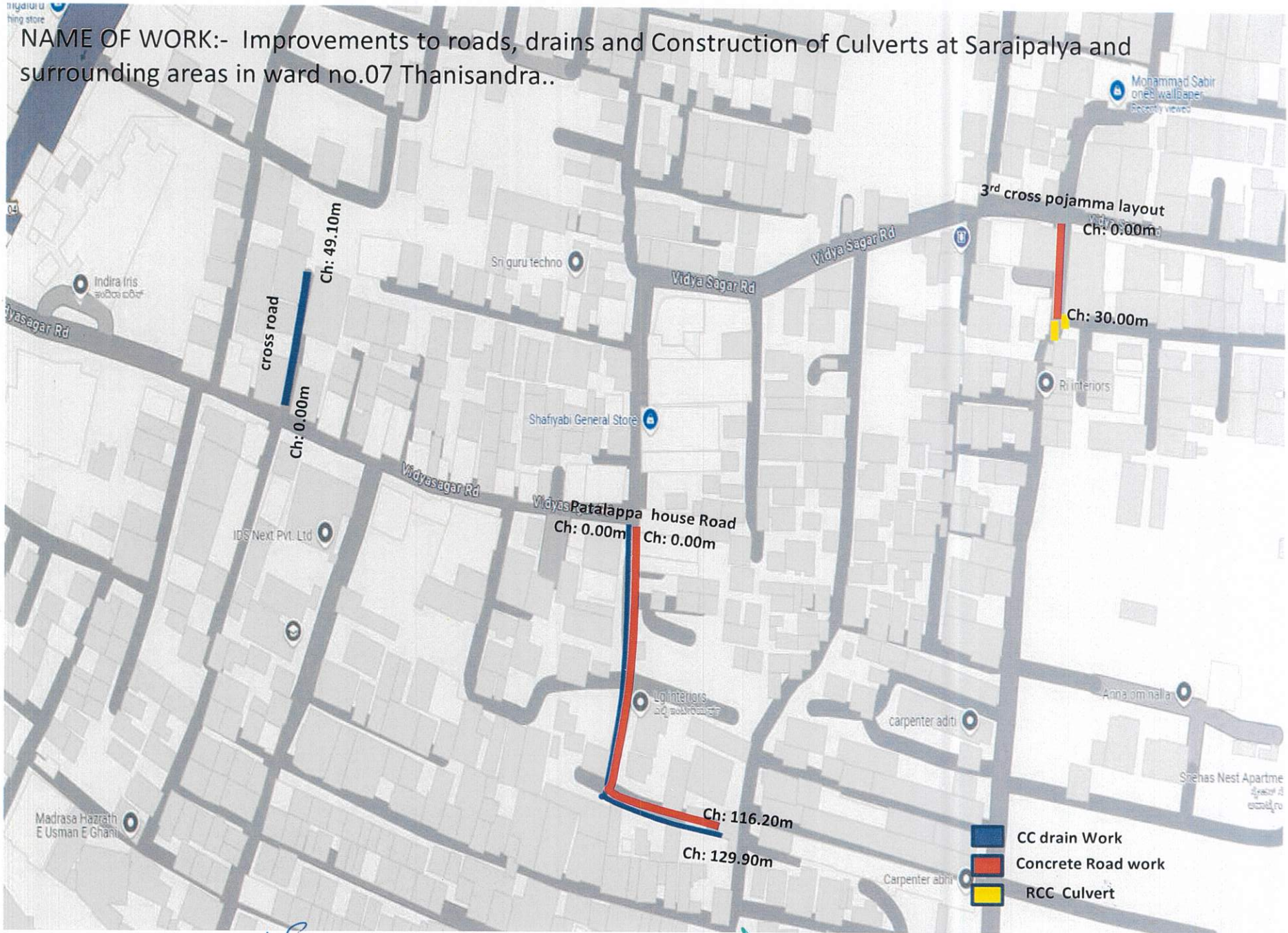
End of Report

NAME OF WORK:- Improvements to roads, drains and Construction of Culverts at Saraipalya and surrounding areas in ward no.07 Thanisandra..



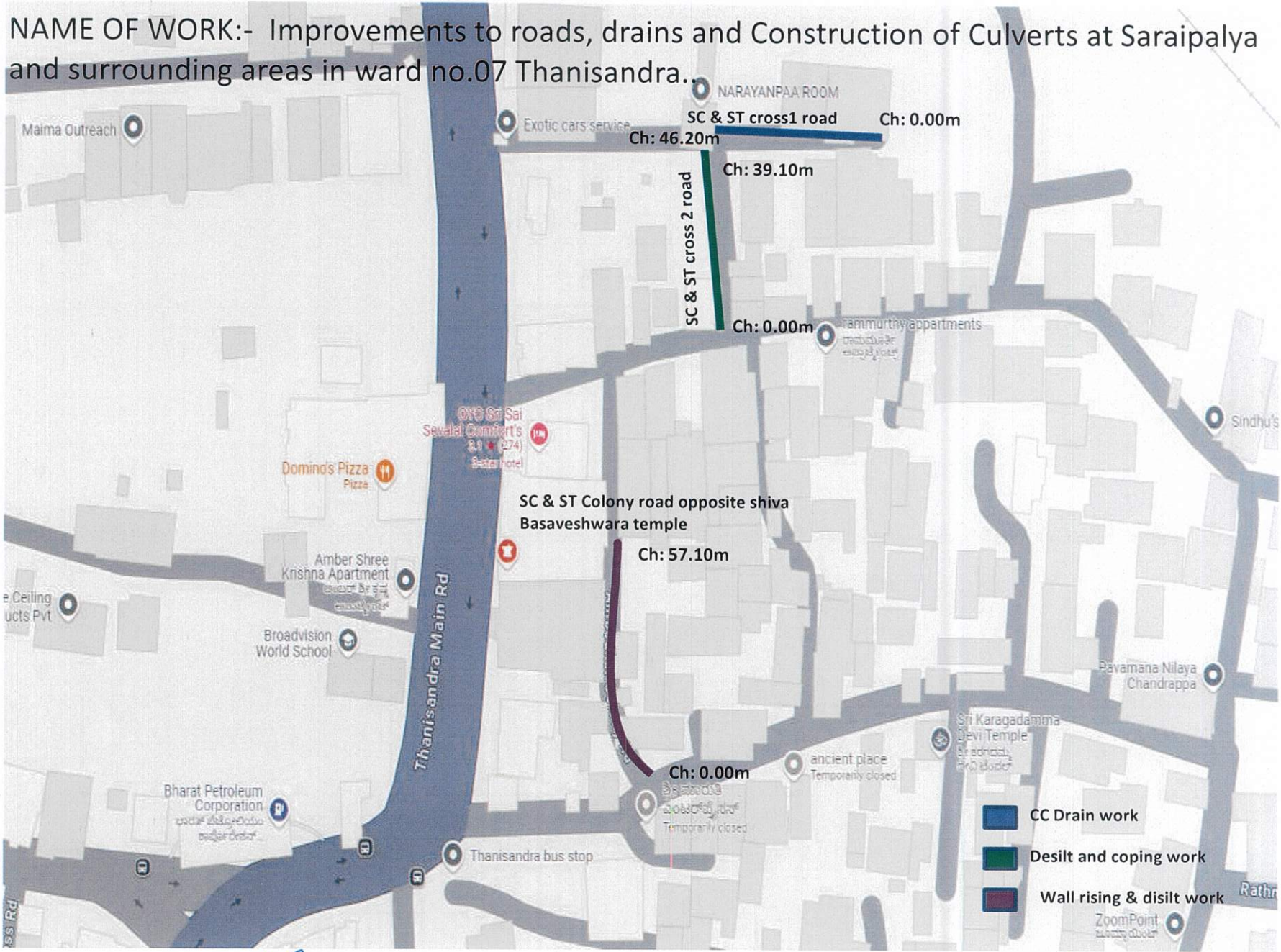
NAME OF WORK:- Improvements to roads , drain and Construction of Culverts at Manjunatha layout and surrounding areas in ward no.7 Thanisandra.

NAME OF WORK:- Improvements to roads, drains and Construction of Culverts at Saraipalya and surrounding areas in ward no.07 Thanisandra..

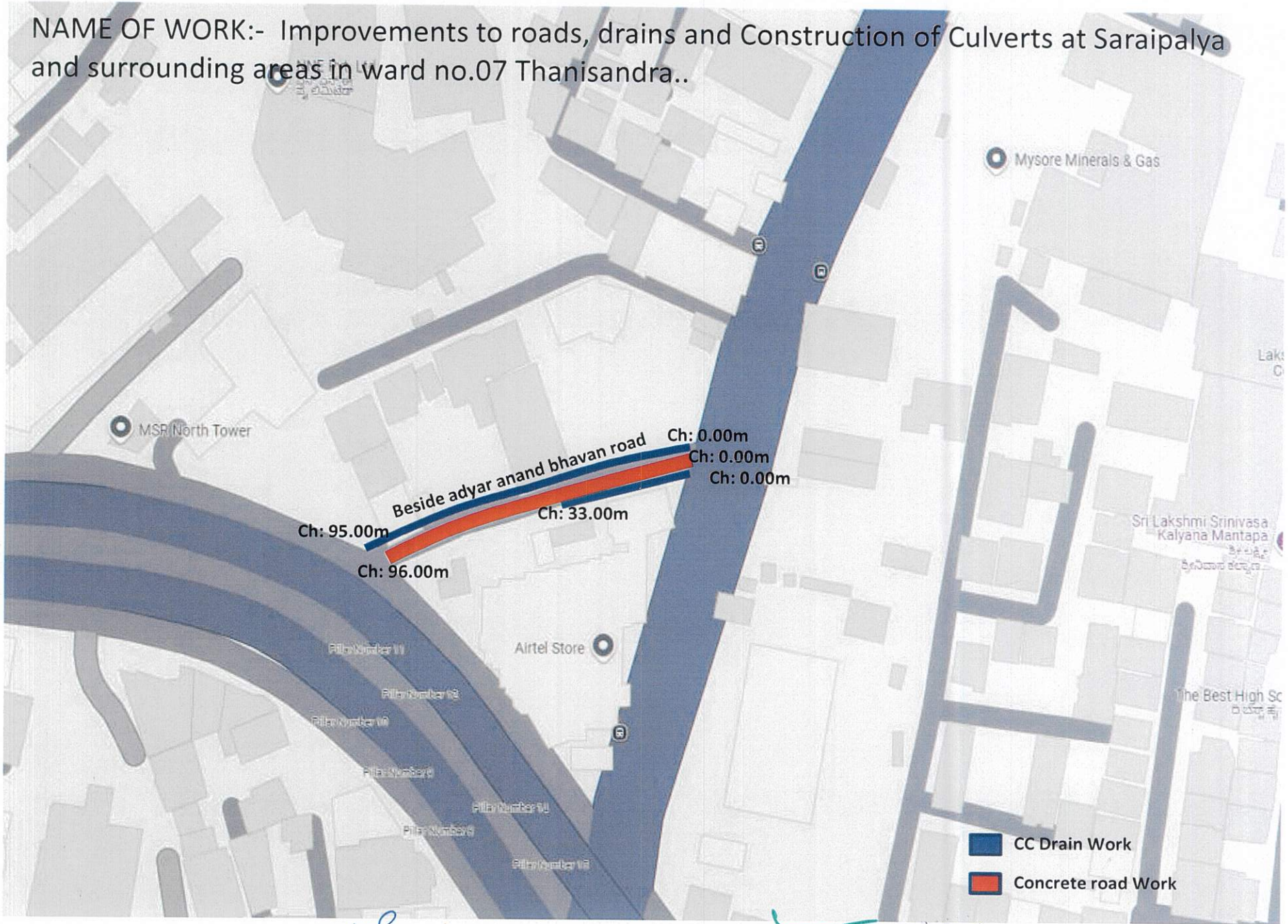


DTP

NAME OF WORK:- Improvements to roads, drains and Construction of Culverts at Saraipalya and surrounding areas in ward no.07 Thanisandra..



NAME OF WORK:- Improvements to roads, drains and Construction of Culverts at Saraipalya and surrounding areas in ward no.07 Thanisandra..



BTP

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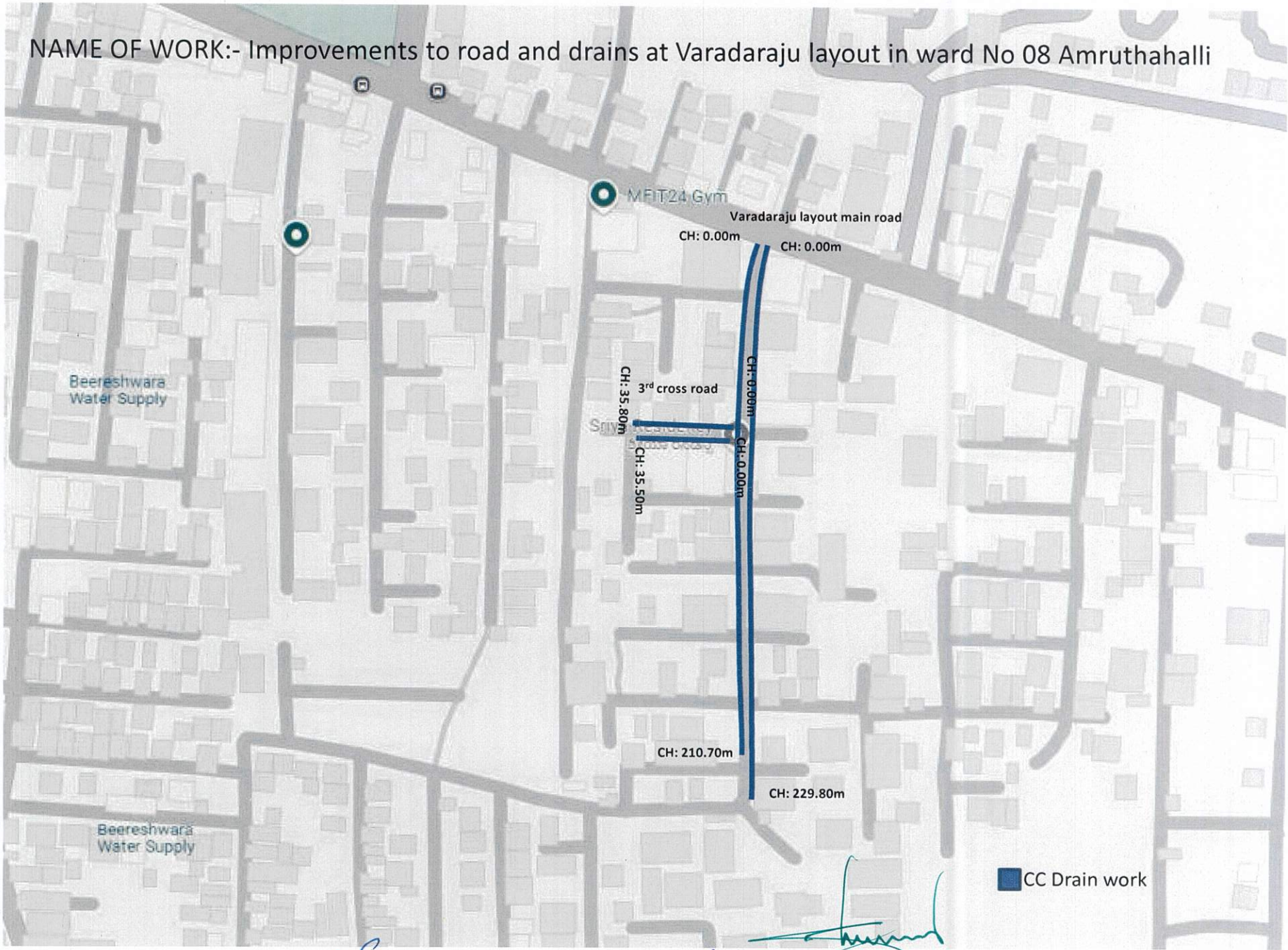
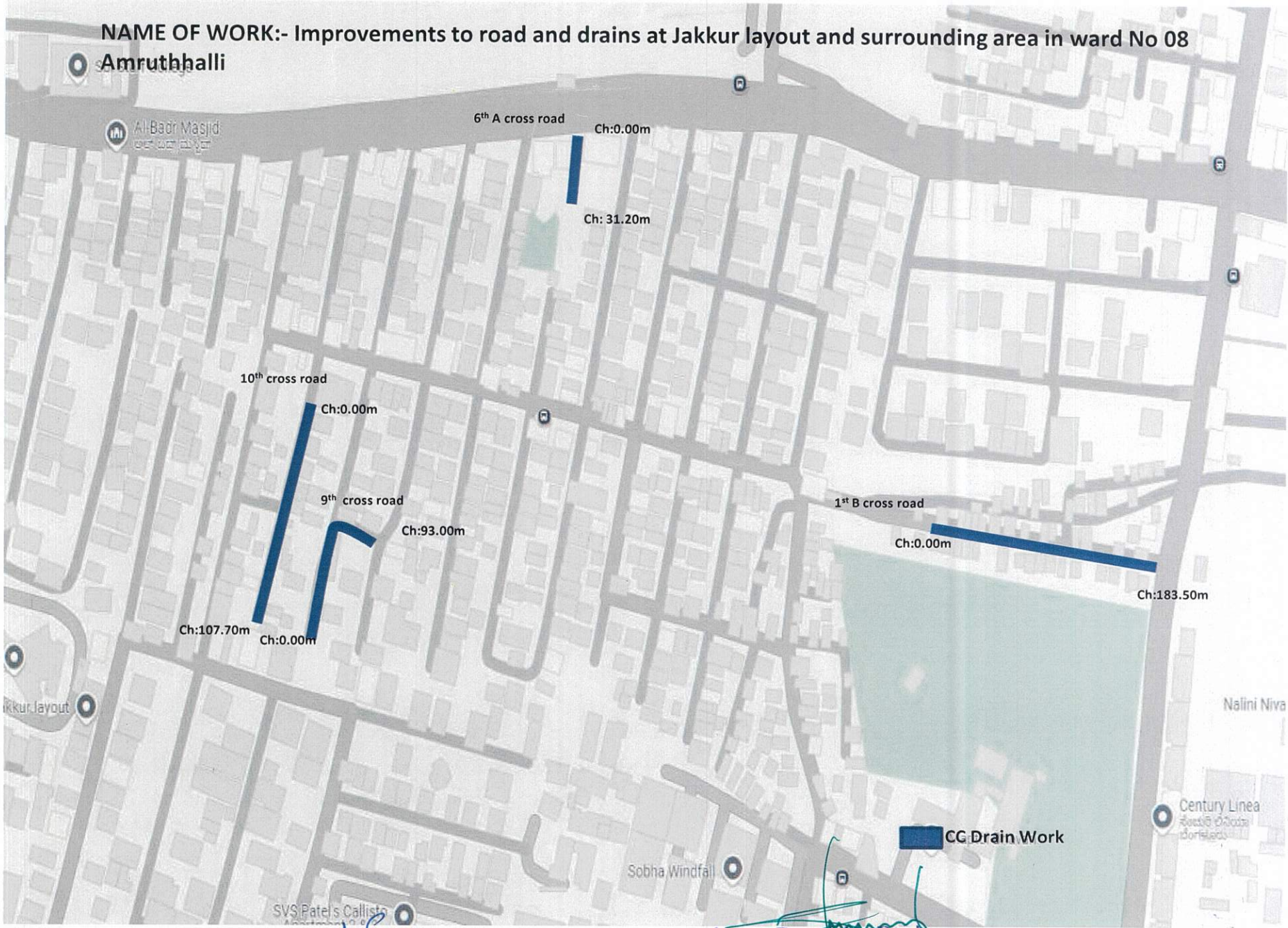
ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು-೯೭

NAME OF WORK:- Improvements to road and drains at Varadaraju layout in ward No 08 Amruthahalli



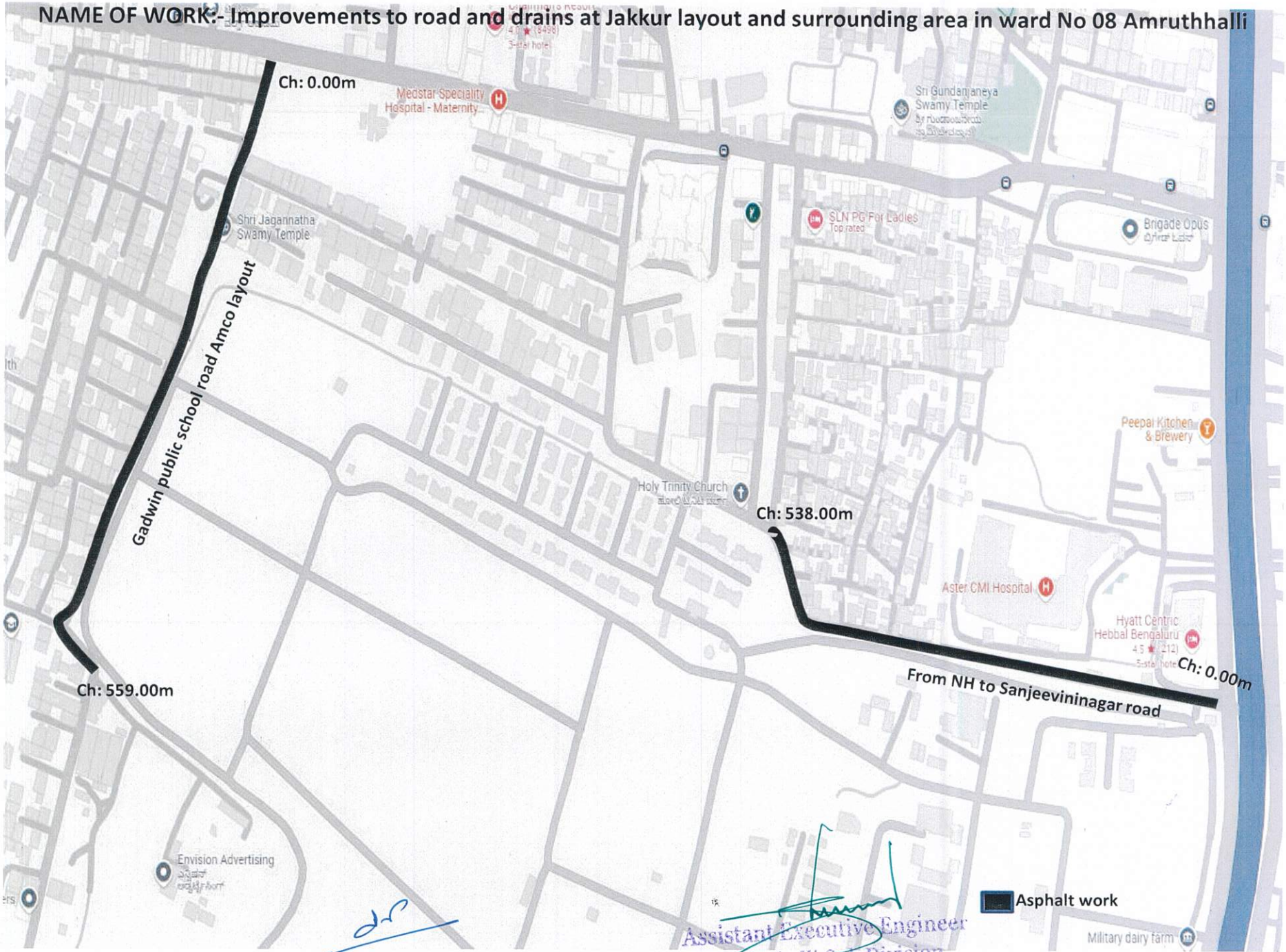
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

NAME OF WORK:- Improvements to road and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli



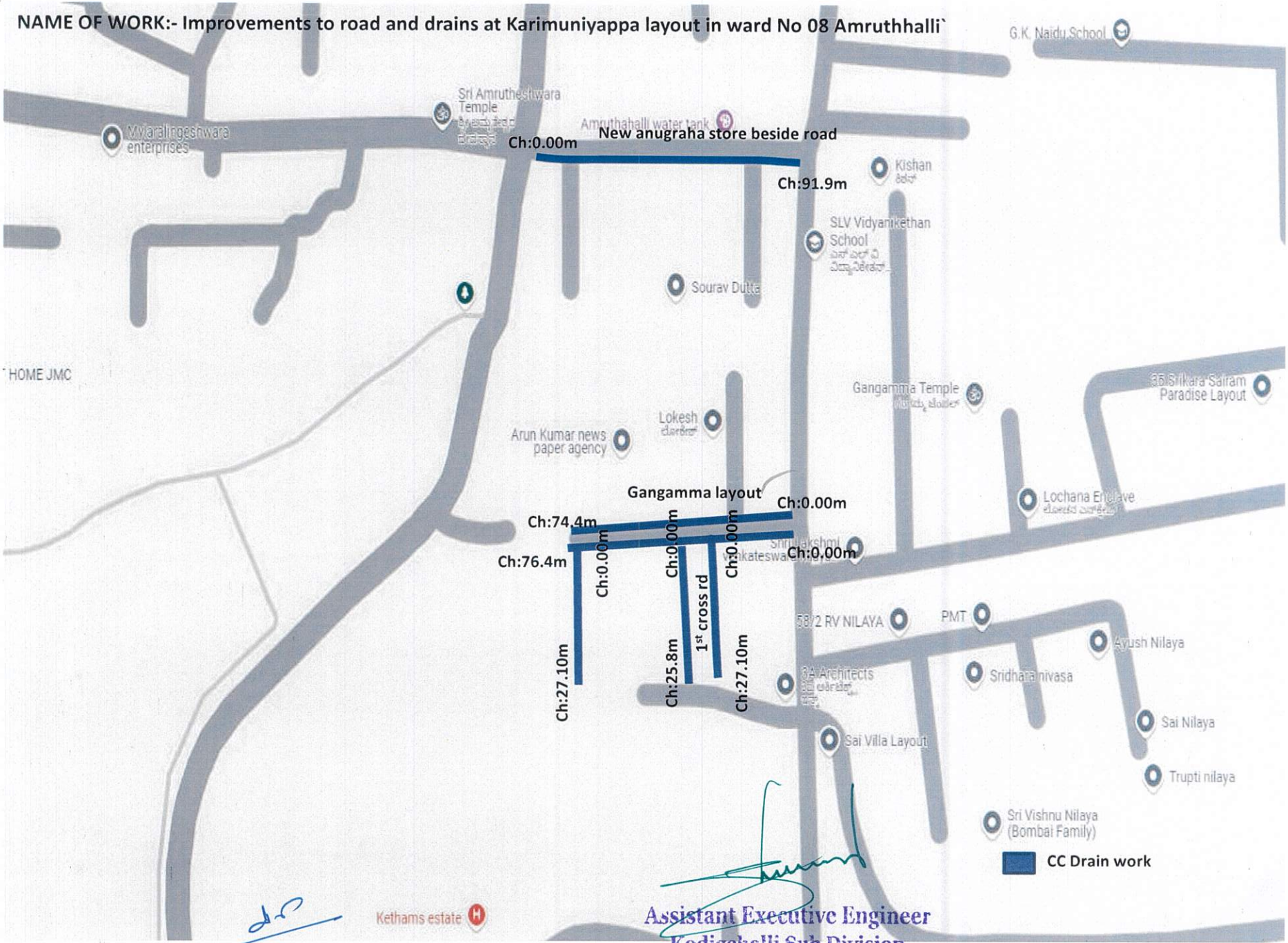
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

NAME OF WORK:- Improvements to road and drains at Jakkur layout and surrounding area in ward No 08 Amruthhalli



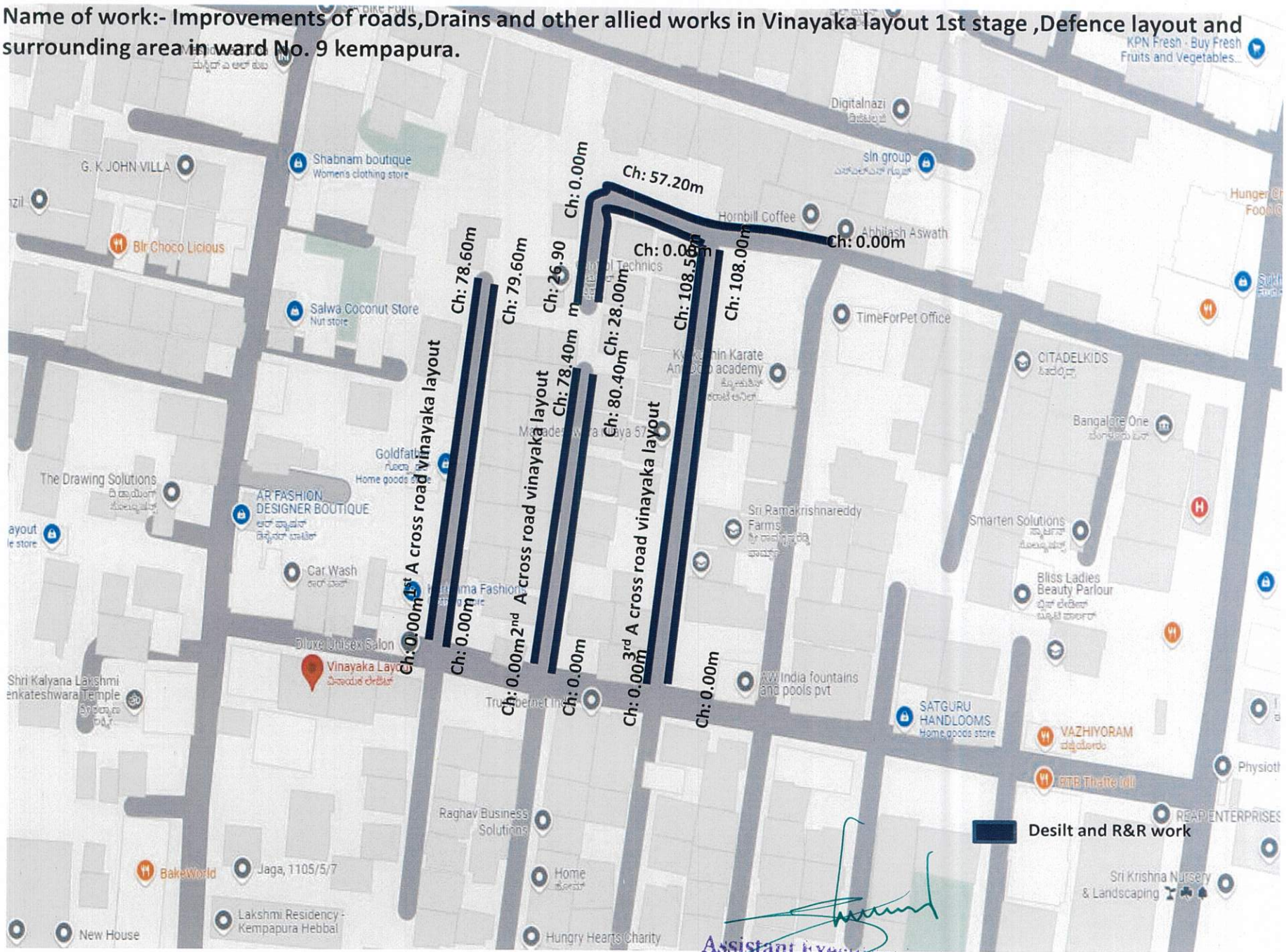
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

NAME OF WORK:- Improvements to road and drains at Karimuniyappa layout in ward No 08 Amruthhalli`



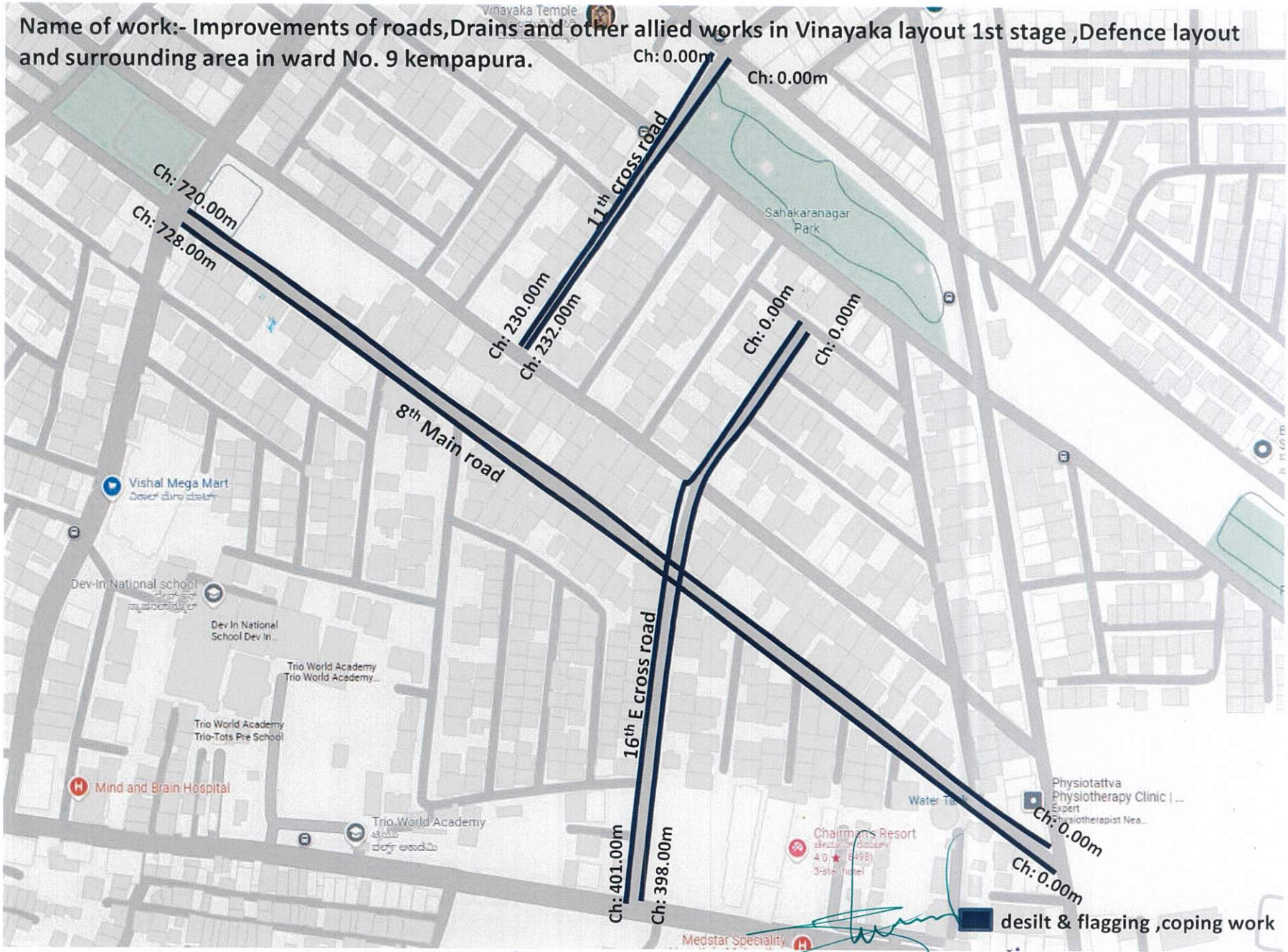
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Name of work:- Improvements of roads,Drains and other allied works in Vinayaka layout 1st stage ,Defence layout and surrounding area in ward No. 9 kempapura.



Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Name of work:- Improvements of roads,Drains and other allied works in Vinayaka layout 1st stage ,Defence layout and surrounding area in ward No. 9 kempapura.



Kodigehalli Sub Division
BBMP Bangalore